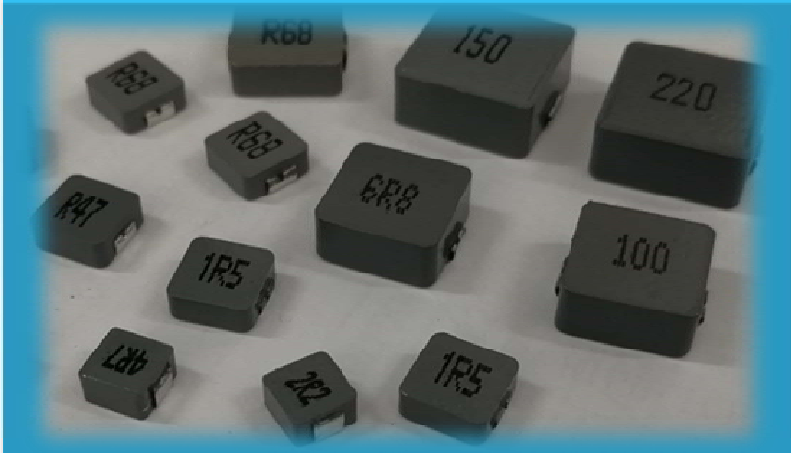
Highlight

HIGHLIGHT PRODUCTS CATALOG

Molded Iron Power Inductor



High Current Power Inductor

2021

SHENZHEN HIGHLIGHT ELECTRONIC CO.,LTD

INDEX

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Tel: +86-0755-29516395 Fax.: +86-0755-29516395
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Highlight ®

RoHS

SMD High Current Power Inductor

●Features

☞High frequency shielding series, up to 3.0MHz
☞High saturation current and temperature current characteristic
☞Low coreloss and DCR type
☞Operational temperature : -40℃ ~125℃(including coil's self temperature rise)
☞RoHS compliance

●Applications

☞DC/DC converters for servers and various decentralized power supplies
☞Output fiter chokes for electronic instruments
☞CPU powered devices

●Part Name Instruction

HGPB1380 – R32 M

① ② ③ ④

① Type Name
② Product Size: 1380=13.5mm×13.0mm×8.0mmMax.
③ Inductance Value: R22=0.22uH,1R0=1.0uH,100=10uH,101=100uH
④ Tolerance Code: M=±20%,N=±30%,L=±15%

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RoHS

HGPB SERIES (L x W priority)

L x W （mm）	H Max （mm）	Series	Inductance （nH）	Idc (A）	Page
4.0 x 4.0	4.0	HGPB0404A	50 / 60 / 80 / 100	17~29	6
4.0 x 5.0	4.0	HGPB0404	23 / 65	29.5~75	7
5.0 x 5.2	6.6	HGPB0506	50 / 70 / 100	36~72	8
5.2 x 5.2	6.5	HGPB56	80	50	9
5.5 x 5.7	4.6	HGPB0504	55	61	10
6.0 x 5.3	6.6	HGPB0606	50	90	11
6.1 x 6.0	7.0	HGPB0607	50 / 70	60~86	12
6.5 x 6.7	9.5	HGPB0609	200/300/400/470/600/800/1000	12~66	13
7.0 x 7.0	3.6	HGPB74	330	12	14
7.0 x 7.0	5.0	HGPB0705	48/52/58/68/72/78/105/150	30-75	15
7.0 x 7.0	5.0	HGPB0705A	72 / 105 / 150	30~58	15
7.0 x 8.5	8.0	HGPB0708	70/90/105/120/160/200	36~107	16
7.2 x 6.7	11.2	HGPB0611	120 / 150 / 220 / 330	28~75	17
7.3 x 6.8	3.6	HGPB73	100	34	18
7.3 x 6.8	4.2	HGPB64	100	20	19
7.6 x 7.4	7.0	HGPB0707	70/105/120/160/185/205	32~93	20
8.0 x 7.0	4.0	HGPB0804	70 / 100 / 140 / 175	26~63	21
8.0 x 8.0	9.5	HGPB0809	300/400/470/600/800/1000	19~67	22
8.3 x 7.5	5.4	HGPB0805	200 / 230	23~25	23
8.3 x 7.6	12.0	HGPB0812	90/100/110/120/130	95~137	24
9.3 x 5.0	9.5	HGPB0909	100 / 150	61~90	25
9.5 x 7.5	9.0	HGPB99	100	80	26
9.6 x 6.4	8.0	HGPB98	300	33	27
9.6 x 6.4	10.4	HGPB0910	70/80/100/120/150	76~125	28
9.6 x 6.6	8.0	HGPB0908	150 / 220 / 280 /300	34~70	29
9.6 x 7.0	5.5	HGPB95	70	100	30
9.6 x 9.0	6.4	HGPB0909A	90/100/120/150/170/180	60~134	31
9.6 x 9.0	6.4	HGPB0909B	210/220/300/400/470	17~47	31
10.0 x 6.0	12.0	HGPB1012	100 / 120 / 150 / 330	40~125	32
10.0 x 7.0	10.0	HGPB1010	100 / 120 / 150 / 220 / 330	43~113	33
10.0 x 7.0	10.0	HGPB1010A	470 / 1000	20.5~43	34
10.0 x 8.0	8.0	HGPB1008	120 150 / 180	67~94	35
10.0 x 8.0	10.0	HGPB0810	100 / 120 /150 / 175 /270 / 300	40~126	36
10.0 x 10.0	6.0	HGPB1060	500	26	37
10.2 x 4.0	2.3	HGPB1020	100	45	38
10.2 x 4.0	3.5	HGPB1035	100	90	39
10.2 x 4.6	10.0	HGPB0410	70 / 90 /100 / 120 / 150	65~141	40
10.2x 7.0	5.0	HGPB75A	85/100/120/150/220	33~70	41

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10.2 x 7.0	5.0	HGPB75B	85/100/120/150/220	33~70	41
10.2 x 10.0	15.5	HGPB1015	220 / 330	55~80	42
10.3 x7.0	5.0	HGPB1005A	200	43	43
10.3 x 7.0	5.2	HGPB75	100 / 160	53~60	44
10.4 x 6.8	12.7	HGPB1013	150 /180 / 230 360 / 470	35~75	45
10.4 x 8.0	6.5	HGPB1006	120/140/160/180/200/310	34~90	46
10.4 x 8.0	7.5	HGPB1007	115/150/175/238/270/305	32~94	47
10.4 x 10.4	9.2	HGPB1009	220 / 330	40-50	48
10.5 x 8.0	7.5	HGPB1070	215	48	49
10.6 x 6.3	8.1	HGPB1078	160	60	50
10.7 x 7.0	2.9	HGPB1028	150	60	51
10.8 x 8.2	8.2	HGPB1082	100 / 120 / 150 / 180	55~100	52
10.9 x 9.8	7.8	HGPB0709	120 / 330	75	53
11.0 x 7.0	3.1	HGPB1030	160	50	54
11.0 x7.0	5.0	HGPB1005	160	60	55
11.0 x 7.0	10.0	HGPB1065	160	75	56
11.0 x8.0	5.0	HGPB1005B	220	40	57
11.0 x 8.0	5.0	HGPB1105	100 / 120 / 150 / 190 / 220	40~81	58
11.0 x 8.2	9.2	HGPB1192	120 / 150 / 180	72~94	59
11.2 x 11.2	9.0	HGPB1109	225 / 270 / 325 / 470	30~68	60
11.4 x 7.0	8.0	HGPB1108	140 / 180 / 240 / 350	29~86	61
11.5 x 11.2	9.2	HGPB1109A	200/225/270/325/470	30~80	62
12.1 x 10.0	6.0	HGPB1206	120/180/215/230/325/365	30~84	63
12.5 x 8.0	8.0	HGPB1208	150 / 180 / 200 / 220	63~98	64
12.6 x 11.8	4.1	HGPB1204	330	40	65
12.8 x 7.3	10.1	HGPB1210	100 / 120 / 150 / 300	43~100	66
13.0 x 6.0	6.0	HGPB1306	550	35	67
13.5 x 8.5	2.9	HGPB1328	145	50	68
13.5 x 13.0	8.0	HGPB1380	210/260/320/440	35~71	69
13.7 x 10.5	7.6	HGPB1307	115/150/175/21/230/270/300	32~94	70
13.7 x 13.0	8.1	HGPB1308	210/260/320/440	38~85	71
13.8 x 8.0	4.0	HGPB1304	110/120/140/160/180	26~60	72
15.1 x 8.6	6.6	HGPB1465	500	60	73
15.3 x 11.3	3.0	HGPB1530	165	55	74
17.0 x 12.0	3.6	HGPB1635	145	50	75
18.0 x 11.4	3.0	HGPB1730	250	30	76
22.2 x 8.2	6.5	HGPB2265	230	100	77
22.2 x 8.2	7.3	HGPB2207	230	100	78

HGPB SERIES (Height priority)

H Max （mm）	L x W （mm）	Series	Inductance （nH）	Idc (A）	Page
2.3	10.2 x 4.0	HGPB1020	100	45	38
2.9	10.7 x 7.0	HGPB1028	150	60	51
2.9	13.5 x 8.5	HGPB1328	145	50	68
3.0	15.3 x 11.3	HGPB1530	165	55	74
3.0	18.0 x 11.4	HGPB1730	250	30	76
3.1	11.0 x 7.0	HGPB1030	160	50	54
3.5	10.2 x 4.0	HGPB1035	100	90	39
3.6	7.0 x 7.0	HGPB74	330	12	14
3.6	7.3 x 6.8	HGPB73	100	34	18
3.6	17.0 x 12.0	HGPB1635	145	50	75
4.0	4.0 x 4.0	HGPB0404A	50 / 60 / 80 / 100	17~29	6
4.0	4.0 x 5.0	HGPB0404	23 / 65	29.5~75	7
4.0	8.0 x 7.0	HGPB0804	70 / 100 / 140 / 175	26~63	21
4.0	13.8 x 8.0	HGPB1304	110/120/140/160/180	26~60	72
4.1	12.6 x 11.8	HGPB1204	330	40	65
4.2	7.3 x 6.8	HGPB64	100	20	19
4.6	5.5 x 5.7	HGPB0504	55	61	10
5.0	7.0 x 7.0	HGPB0705	48/52/58/68/72/78/105/150	30-75	15
5.0	7.0 x 7.0	HGPB0705A	72 / 105 / 150	30~58	15
5.0	10.2x 7.0	HGPB75A	85/100/120/150/220	33~70	41
5.0	10.2 x 7.0	HGPB75B	85/100/120/150/220	33~70	41
5.0	10.3 x7.0	HGPB1005A	200	43	43
5.0	11.0 x7.0	HGPB1005	160	60	55
5.0	11.0 x8.0	HGPB1005B	220	40	57
5.0	11.0 x 8.0	HGPB1105	100 / 120 / 150 / 190 / 220	40~81	58
5.2	10.3 x 7.0	HGPB75	100 / 160	53~60	44
5.4	8.3 x 7.5	HGPB0805	200 / 230	23~25	23
5.5	9.6 x 7.0	HGPB95	70	100	30
6.0	10.0 x 10.0	HGPB1060	500	26	37
6.0	12.1 x 10.0	HGPB1206	120/180/215/230/325/365	30~84	63
6.0	13.0 x 6.0	HGPB1306	550	35	67
6.4	9.6 x 9.0	HGPB0909A	90/100/120/150/170/180	60~134	31
6.4	9.6 x 9.0	HGPB0909B	210/220/300/400/470	17~47	31
6.5	5.2 x 5.2	HGPB56	80	50	9
6.5	10.4 x 8.0	HGPB1006	120/140/160/180/200/310	34~90	46
6.5	22.2 x 8.2	HGPB2265	230	100	77
6.6	5.0 x 5.2	HGPB0506	50 / 70 / 100	36~72	8
6.6	6.0 x 5.3	HGPB0606	50	90	11
6.6	15.1 x 8.6	HGPB1465	500	60	73

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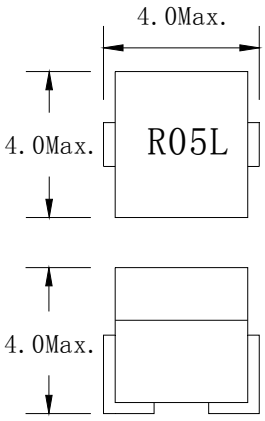
7.0	6.1 x 6.0	HGPB0607	50 / 70	60~86	12
7.0	7.6 x 7.4	HGPB0707	70/105/120/160/185/205	32~93	20
7.3	22.2 x 8.2	HGPB2207	230	100	78
7.5	10.4 x 8.0	HGPB1007	115/150/175/238/270/305	32~94	47
7.5	10.5 x 8.0	HGPB1070	215	48	49
7.6	13.7 x 10.5	HGPB1307	115/150/175/21/230/270/300	32~94	70
7.8	10.9 x 9.8	HGPB0709	120 / 330	75	53
8.0	7.0 x 8.5	HGPB0708	70/90/105/120/160/200	36~107	16
8.0	9.6 x 6.4	HGPB98	300	33	27
8.0	9.6 x 6.6	HGPB0908	150 / 220 / 280 /300	34~70	29
8.0	10.0 x 8.0	HGPB1008	120 150 / 180	67~94	35
8.0	11.4 x 7.0	HGPB1108	140 / 180 / 240 / 350	29~86	61
8.0	12.5 x 8.0	HGPB1208	150 / 180 / 200 / 220	63~98	64
8.0	13.5 x 13.0	HGPB1380	210/260/320/440	35~71	69
8.1	10.6 x 6.3	HGPB1078	160	60	50
8.1	13.7 x 13.0	HGPB1308	210/260/320/440	38~85	71
8.2	10.8 x 8.2	HGPB1082	100 / 120 / 150 / 180	55~100	52
9.0	9.5 x 7.5	HGPB99	100	80	26
9.0	11.2 x 11.2	HGPB1109	225 / 270 / 325 / 470	30~68	60
9.2	10.4 x 10.4	HGPB1009	220 / 330	40-50	48
9.2	11.0 x 8.2	HGPB1192	120 / 150 / 180	72~94	59
9.2	11.5 x 11.2	HGPB1109A	200/225/270/325/470	30~80	62
9.5	6.5 x 6.7	HGPB0609	200/300/400/470/600/800/1000	12~66	13
9.5	8.0 x 8.0	HGPB0809	300/400/470/600/800/1000	19~67	22
9.5	9.3 x 5.0	HGPB0909	100 / 150	61~90	25
10.0	10.0 x 7.0	HGPB1010	100 / 120 / 150 / 220 / 330	43~113	33
10.0	10.0 x 7.0	HGPB1010A	470 / 1000	20.5~43	34
10.0	10.0 x 8.0	HGPB0810	100 / 120 /150 / 175 /270 / 300	40~126	36
10.0	10.2 x 4.6	HGPB0410	70 / 90 /100 / 120 / 150	65~141	40
10.0	11.0 x 7.0	HGPB1065	160	75	56
10.1	12.8 x 7.3	HGPB1210	100 / 120 / 150 / 300	43~100	66
10.4	9.6 x 6.4	HGPB0910	70/80/100/120/150	76~125	28
11.2	7.2 x 6.7	HGPB0611	120 / 150 / 220 / 330	28~75	17
12.0	8.3 x 7.6	HGPB0812	90/100/110/120/130	95~137	24
12.0	10.0 x 6.0	HGPB1012	100 / 120 / 150 / 330	40~125	32
12.7	10.4 x 6.8	HGPB1013	150 /180 / 230 360 / 470	35~75	45
15.5	10.2 x 10.0	HGPB1015	220 / 330	55~80	42

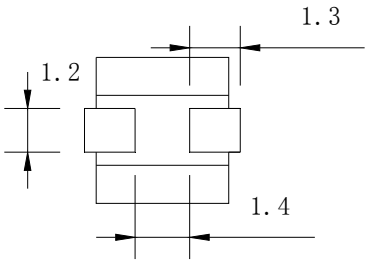
Highlight ®

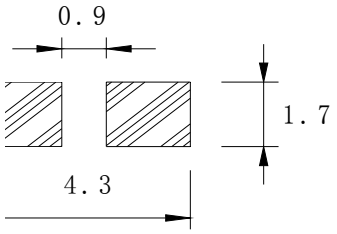
RoHS

UI High Current Type
HGPB0404A Series

•Dimensions (mm)







Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)			Temperature rise current (A)
			25℃	100℃	125℃	
HGPB0404A-R05L	50±15%	0.32±10%	29	26	21	19
HGPB0404A-R06L	65±15%	0.32±10%	26	22	19	19
HGPB0404A-R08M	80±20%	0.32±10%	22	17	16	19
HGPB0404A-R10M	100±20%	0.32±10%	17	13	12	19

1. Measuring frequency at 100kHz, 1V
2. Saturation current : DC current that will cause Lo to drop approximately 35%.
3. Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.
4. All test data is referenced to 25℃ ambient.
5. Operating Temperature Range -40℃ to +125℃
6. Packing：Carrier type，Quantity：2000pcs/Reel

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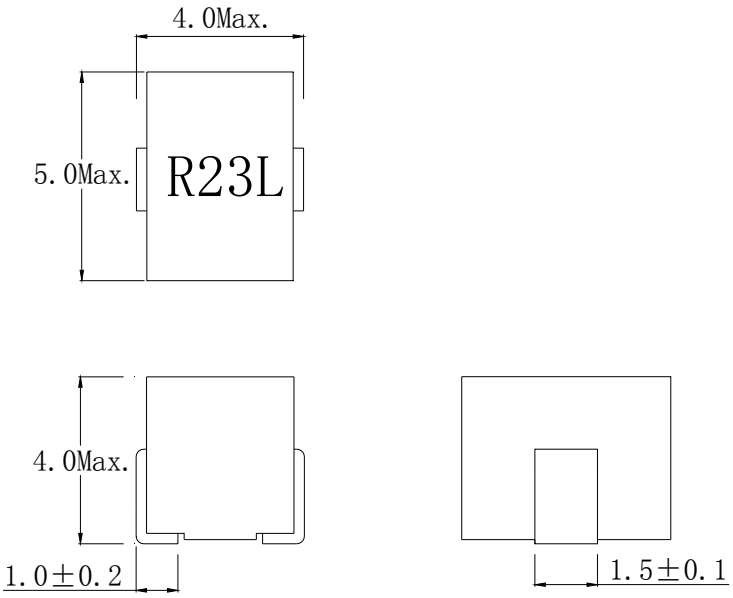
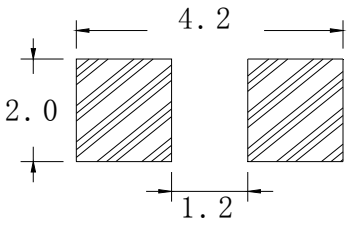
Highlight ®

RoHS

UI High Current Type
HGPB0404 Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	Inductance L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			25℃	100℃	
HGPB0404-R23L	23±15%	0.33±10%	75	52	30
HGPB0404-R65L	65±15%	0.33±10%	29.5	24	30

1. Measuring frequency at 100kHz,0.1V
2. Saturation current : DC current that will cause Lo to drop approximately 20%.
3. Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.
4. All test data is referenced to 25℃ ambient.
5. Operating Temperature Range -40℃ to +125℃
6. Packing：Carrier type，Quantity：2000pcs/Reel

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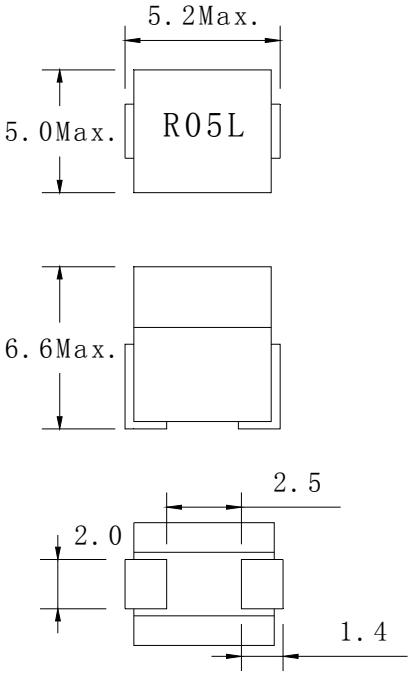
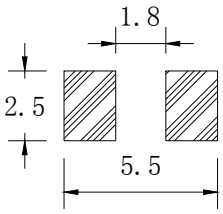
Highlight ®

RoHS

UI High Current Type
HGPB0506 Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)			Temperature rise current (A)
			25℃	100℃	125℃	
HGPB0506-R05L	50±15%	0.27±10%	72	57	54	53
HGPB0506-R07L	70±15%	0.27±10%	51	41	38	53
HGPB0506-R10L	100±15%	0.27±10%	36	29	27	53

1. Measuring frequency at 100kHz,1V
2. Saturation current : DC current that will cause Lo to drop approximately 20%.
3. Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.
4. All test data is referenced to 25℃ ambient.
5. Operating Temperature Range -40℃ to +125℃
6. Packing：Carrier type，Quantity：750pcs/Reel

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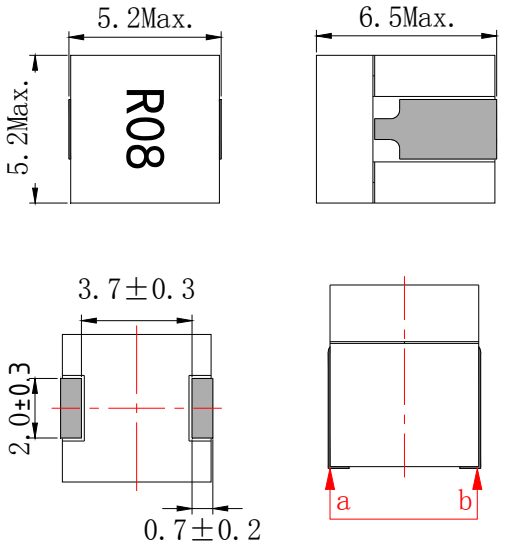
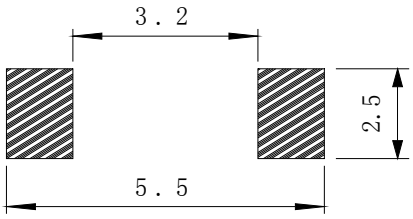
UI High Current Type
HGPB56 Series

•Dimensions (mm)



※a、b为DCR测试位置



Suggested pad layout

•Electrical Characteristics

Part No.	Inductance L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)	Temperature rise current (A)
			25℃	
HGPB56-R08M	80±20%	0.25±0.05	50	35

1. Measuring frequency at 100kHz,1V
2. Saturation current : DC current that will cause Lo to drop approximately 30%.
3. Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.
4. All test data is referenced to 25℃ ambient.
5. Operating Temperature Range -40℃ to +125℃
6. Packing：Carrier type，Quantity： 750pcs/Reel

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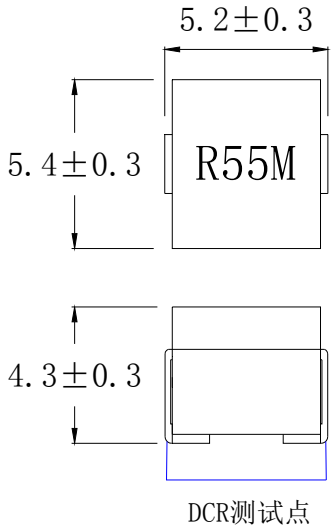
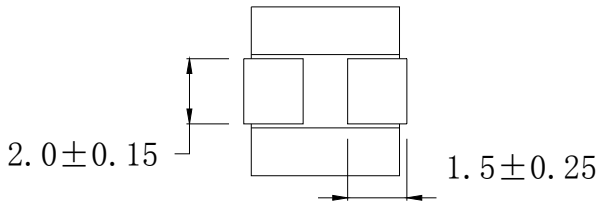
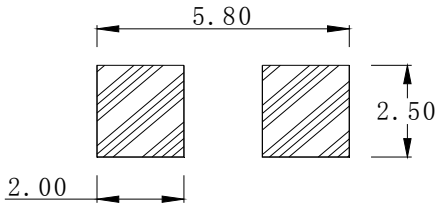
UI High Current Type
HGPB0504 Series

•Dimensions (mm)







Suggested pad layout

•Electrical Characteristics

Part No.	Inductance L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			25℃	100℃	
HGPB0504-R55M	55±20%	0.20±10%	61	48	35

1. Measuring frequency at 100kHz,0.1V
2. Saturation current : DC current that will cause Lo to drop approximately 20%.
3. Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.
4. All test data is referenced to 25℃ ambient.
5. Operating Temperature Range -40℃ to +125℃
6. Packing：Carrier type，Quantity：1000pcs/Reel

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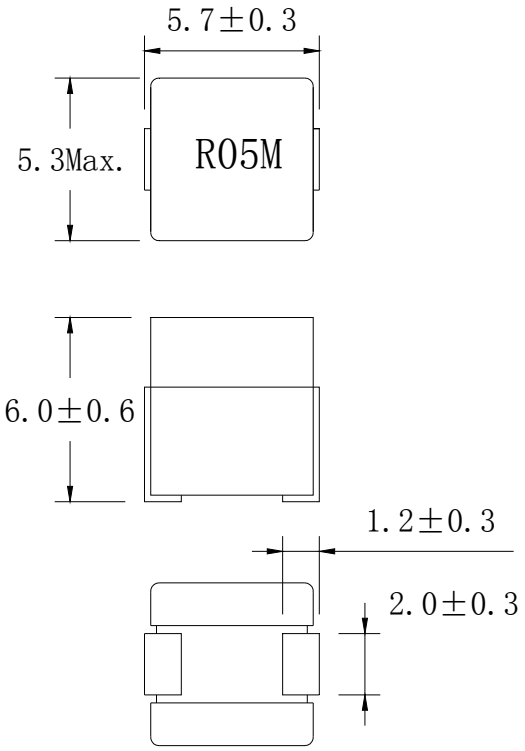
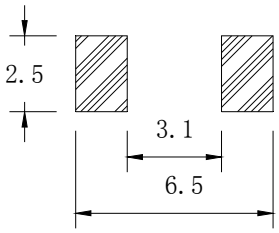
Highlight ®

RoHS

UI High Current Type
HGPB0606 Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)			Temperature rise current (A)
			25℃	100℃	125℃	
HGPB0606-R05M	50±20%	0.24±10%	90	73	67	56

1. Measuring frequency at 100kHz,1V
2. Saturation current : DC current that will cause Lo to drop approximately 35%.
3. Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.
4. All test data is referenced to 25℃ ambient.
5. Operating Temperature Range -40℃ to +125℃
6. Packing：Carrier type，Quantity：750pcs/Reel

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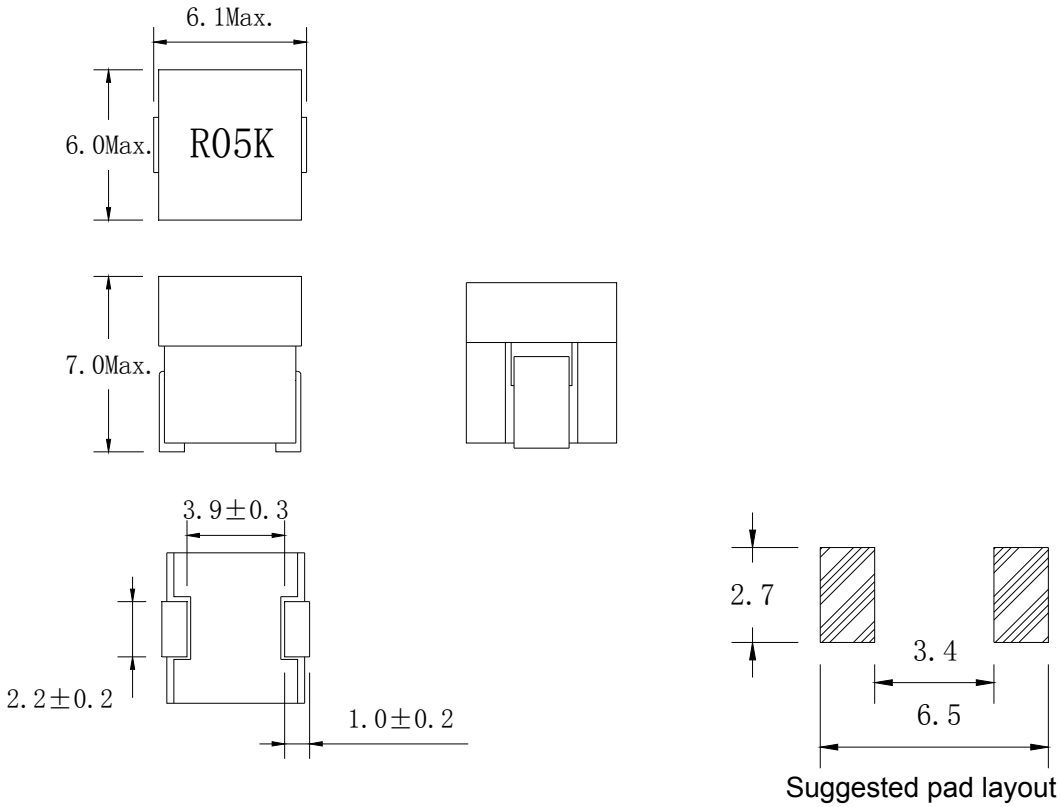
Highlight ®

RoHS

UI High Current Type
HGPB0607 Series

•Dimensions (mm)



Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)			Temperature rise current (A)
			25℃	100℃	125℃	
HGPB0607-R05K	50±10%	0.09±15%	86	69	64	53
HGPB0607-R07K	70±10%	0.09±15%	60	48	45	53

1. Measuring frequency at 100kHz,1V
2. Saturation current : DC current that will cause Lo to drop approximately 30%.
3. Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.
4. All test data is referenced to 25℃ ambient.
5. Operating Temperature Range -40℃ to +125℃
6. Packing：Carrier type，Quantity：700pcs/Reel

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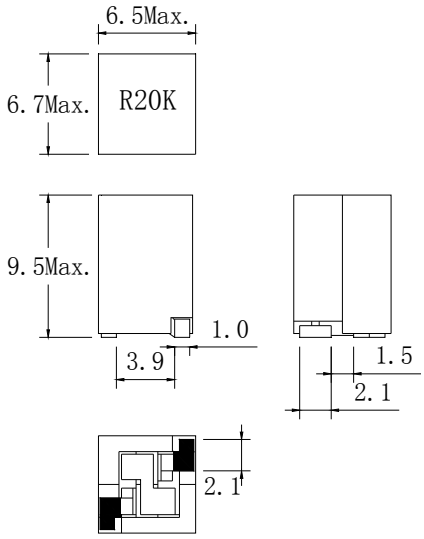
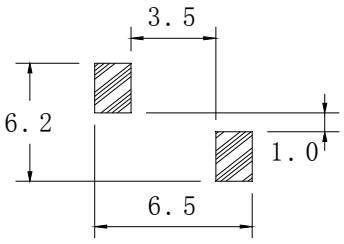
RoHS

UI High Current Type
HGPB0609 Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)			Temperature rise current (A)
			25℃	100℃	125℃	
HGPB0609-R20K	200±10%	0.85±15%	66	52	49	30
HGPB0609-R30K	300±10%	0.85±15%	45	36	34	30
HGPB0609-R40K	400±10%	0.85±15%	30	24	22	30
HGPB0609-R47K	470±10%	0.85±15%	25	20	19	30
HGPB0609-R60K	600±10%	0.85±15%	20	16	15	30
HGPB0609-R80K	800±10%	0.85±15%	15	12	11	30
HGPB0609-R100K	1000±10%	0.85±15%	12	10	9	30

1. **Measuring frequency at 100kHz,1V**
2. **Saturation current : DC current that will cause Lo to drop approximately 20%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -40℃ to +125℃**
6. **Packing：Carrier type，Quantity：400pcs/Reel**

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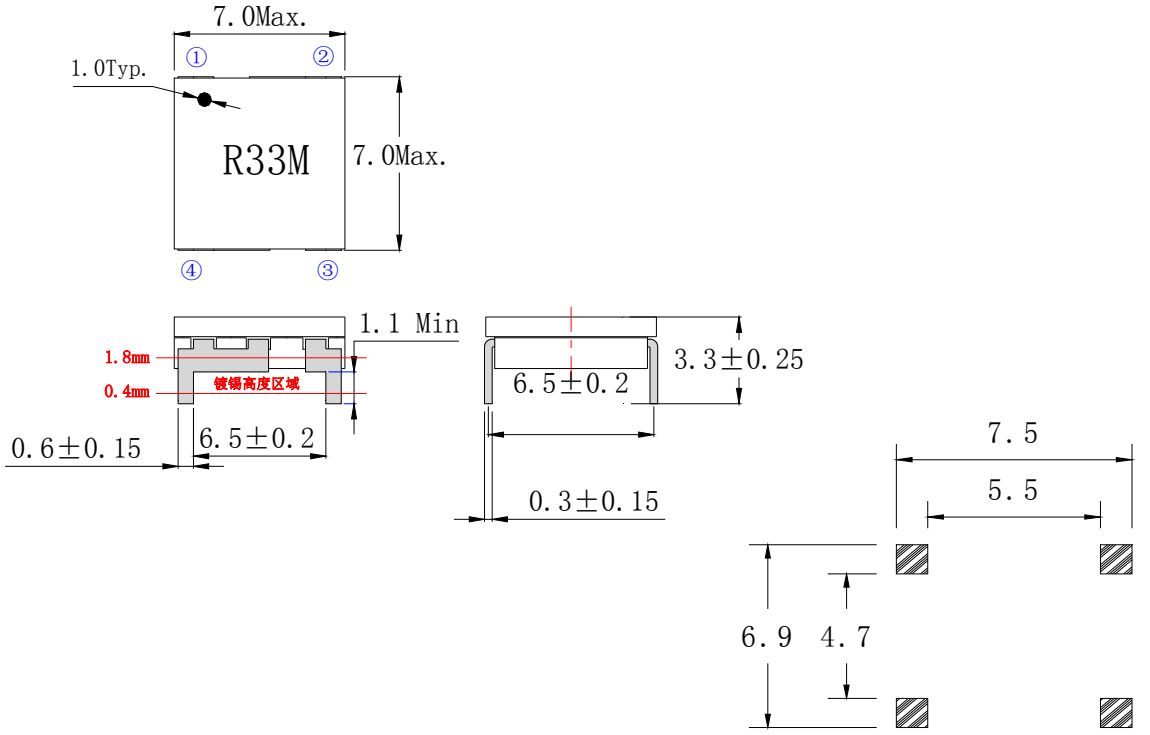
RoHS

UI High Current Type
HGPB74 Series

•Dimensions (mm)



Suggested pad layout

•Electrical Characteristics

Part No.	Inductance L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			25℃	100℃	
HGPB74-R33M	330±20%	2.2±15%	12	9.6	14

1. Measuring frequency at 100kHz,1V
2. Saturation current : DC current that will cause Lo to drop approximately 20%.
3. Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 45℃.
4. All test data is referenced to 25℃ ambient.
5. Operating Temperature Range -40℃ to +125℃
6. Packing：Carrier type，Quantity：1200 pcs/Reel

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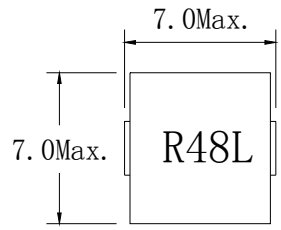
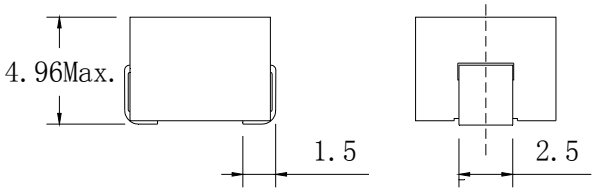
Highlight

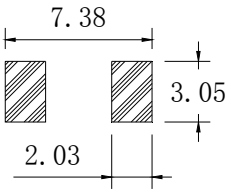
RoHS

UI High Current Type
HGPB0705 Series

•Dimensions (mm)







Suggested pad layout

•Electrical Characteristics

Part No.	Inductance L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			25℃	100℃	
HGPB0705-R48L	48±15%	0.32±10%	75	75	41
HGPB0705-R52L	52±15%	0.32±10%	75	71	41
HGPB0705-R58L	58±15%	0.32±10%	75	68	41
HGPB0705-R68L	68±15%	0.32±10%	70	58	41
HGPB0705-R78L	78±15%	0.32±10%	63	53	41
HGPB0705-R72M	72±20%	0.32±10%	58	45	41
HGPB0705-R10M	105±20%	0.32±10%	46	38	41
HGPB0705-R15M	150±20%	0.32±10%	30	24	41
HGPB0705A-R72M	72±20%	0.46±10%	58	45	31
HGPB0705A-R10M	105±20%	0.46±10%	46	38	31
HGPB0705A-R15M	150±20%	0.46±10%	30	24	31

1. **Measuring frequency at 100kHz,0.1V**
2. **Saturation current : DC current that will cause Lo to drop approximately 20%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -40℃ to +125℃**
6. **Packing：Carrier type，Quantity：1000pcs/Reel**

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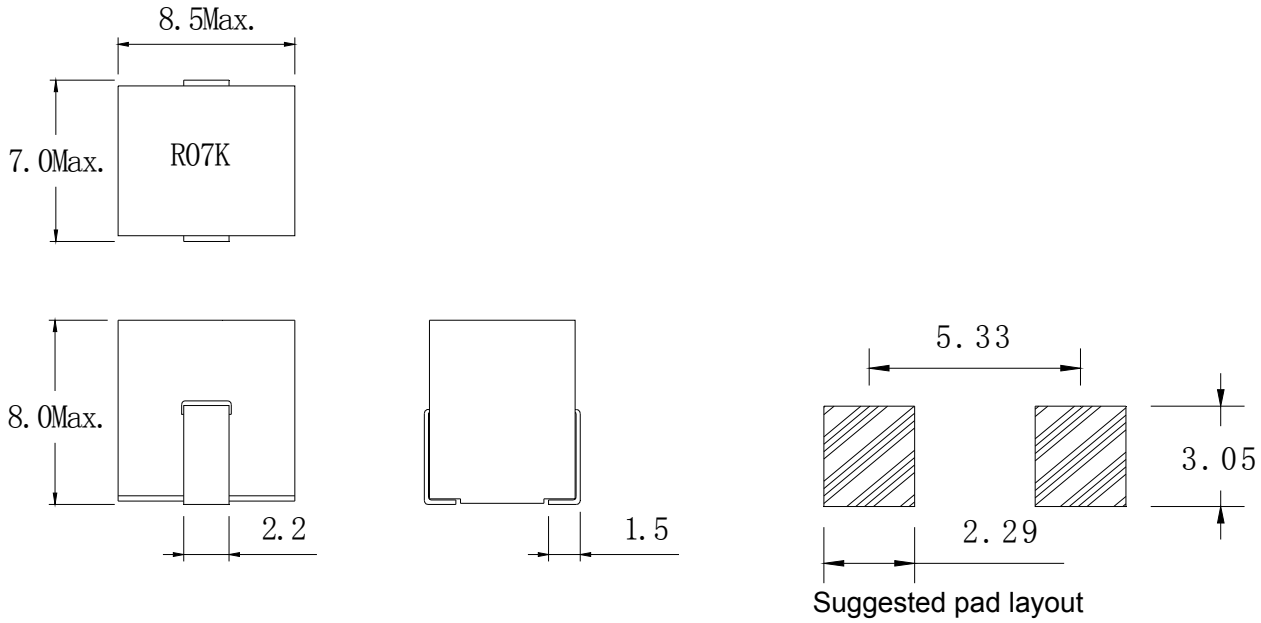
Highlight ®

RoHS

UI High Current Type
HGPB0708 Series

•Dimensions (mm)



Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			25℃	100℃	
HGPB0708-R07K	70±10%	0.35±10%	107	75	33
HGPB0708-R09K	90±10%	0.35±10%	83	75	33
HGPB0708-R10K	105±10%	0.35±10%	75	66	33
HGPB0708-R12K	120±10%	0.35±10%	64	58	33
HGPB0708-R16K	160±10%	0.35±10%	48	43	33
HGPB0708-R20K	200±10%	0.35±10%	36	31	33

1. **Measuring frequency at 100kHz,0.1V**
2. **Saturation current : DC current that will cause Lo to drop approximately 20%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -40℃ to +125℃**
6. **Packing：Carrier type，Quantity：500pcs/Reel**

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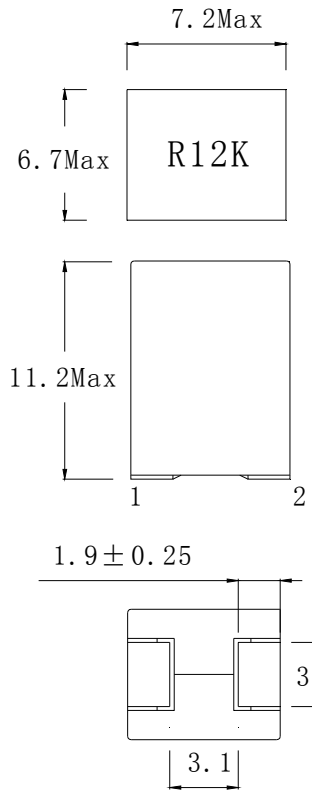
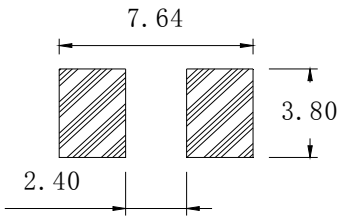
Highlight ®

RoHS

UI High Current Type
HGPB0611 Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	Inductance L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			25℃	100℃	
HGPB0611-R12K	120±10%	0.29±10%	75	74	40
HGPB0611-R15K	150±10%	0.29±10%	72	63	40
HGPB0611-R22K	220±10%	0.29±10%	50	42	40
HGPB0611-R33K	330±10%	0.29±10%	28	22	40

1. **Measuring frequency at 100kHz,0.1V**
2. **Saturation current : DC current that will cause Lo to drop approximately 20%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -40℃ to +125℃**
6. **Packing：Carrier type，Quantity：300pcs/Reel**

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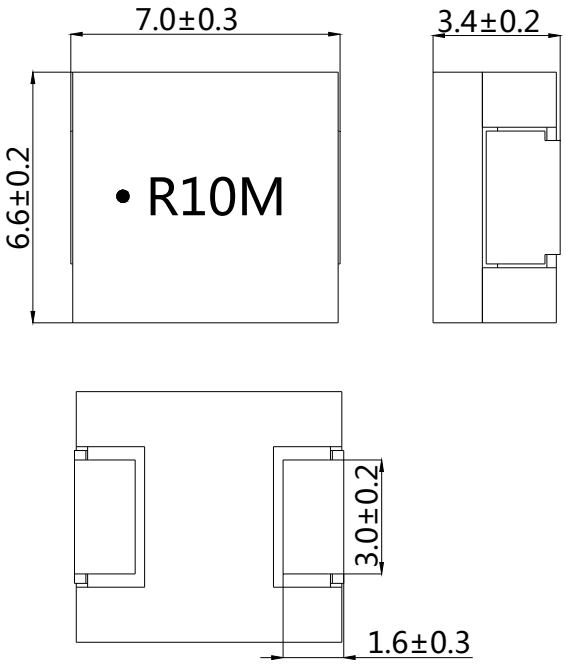
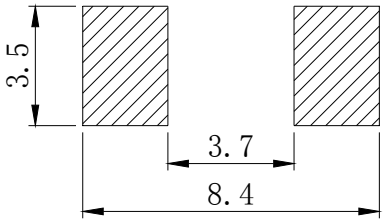
UI High Current Type
HGPB73 Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	Inductance L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)	Temperature rise current (A)
			25℃	
HGPB73-R10M	100±20%	0.19 Max	34	30

1. Measuring frequency at 100kHz,1V
2. Saturation current : DC current that will cause Lo to drop approximately 25%.
3. Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.
4. All test data is referenced to 25℃ ambient.
5. Operating Temperature Range -40℃ to +125℃
6. Packing：Carrier type，Quantity：1500pcs/Reel

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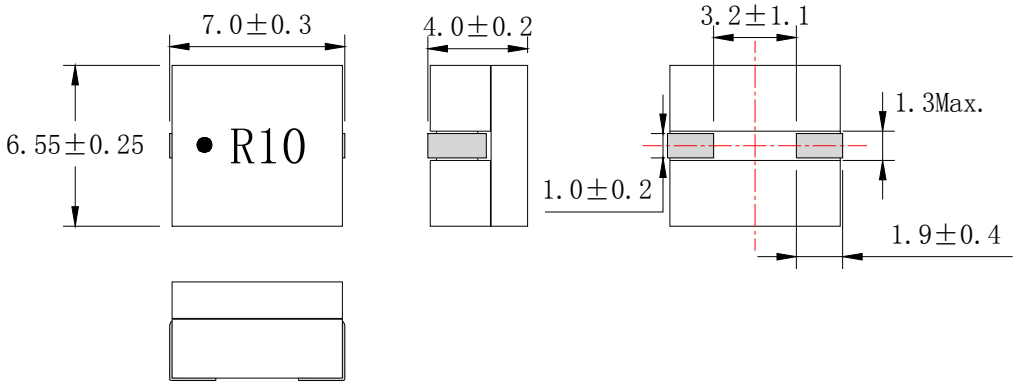
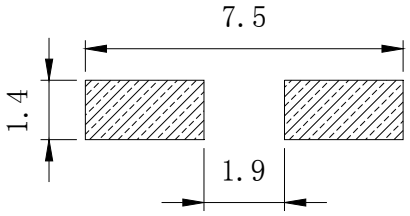
Highlight ®

RoHS

UI High Current Type
HGPB64 Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	Inductance L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)	Temperature rise current (A)
			25℃	
HGPB64-R10M	100±20%	0.7±15%	20	15

1. Measuring frequency at 100kHz,0.1V
2. Saturation current : DC current that will cause Lo to drop approximately 25%.
3. Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.
4. All test data is referenced to 25℃ ambient.
5. Operating Temperature Range -40℃ to +125℃
6. Packing：Carrier type，Quantity： 1200pcs/Reel

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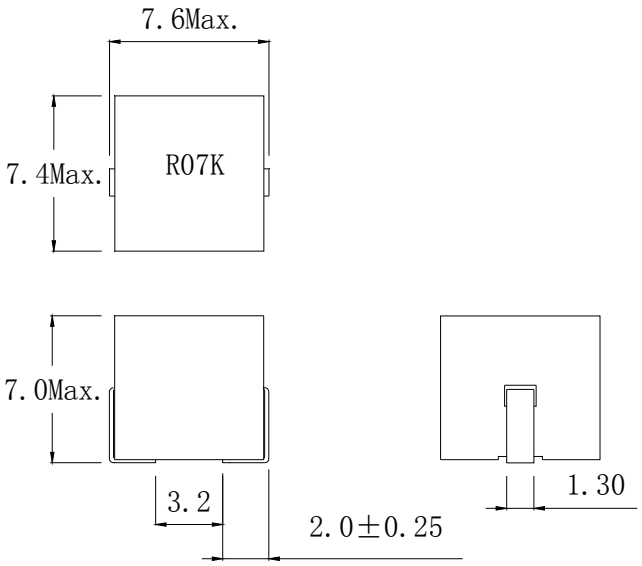
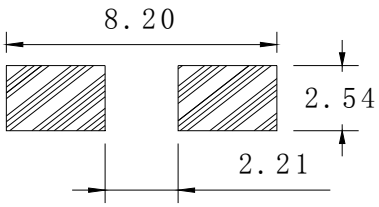
Highlight ®

RoHS

UI High Current Type
HGPB0707 Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			25℃	100℃	
HGPB0707-R07K	70±10%	0.60±10%	93	75	27
HGPB0707-R10K	105±10%	0.60±10%	61	54	27
HGPB0707-R12K	120±10%	0.60±10%	55	48	27
HGPB0707-R16K	160±10%	0.60±10%	41	38	27
HGPB0707-R18K	185±10%	0.60±10%	36	33	27
HGPB0707-R20K	205±10%	0.60±10%	32	29	27

1. **Measuring frequency at 100kHz,0.1V**
2. **Saturation current : DC current that will cause Lo to drop approximately 20%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -40℃ to +125℃**
6. **Packing：Carrier type，Quantity：500pcs/Reel**

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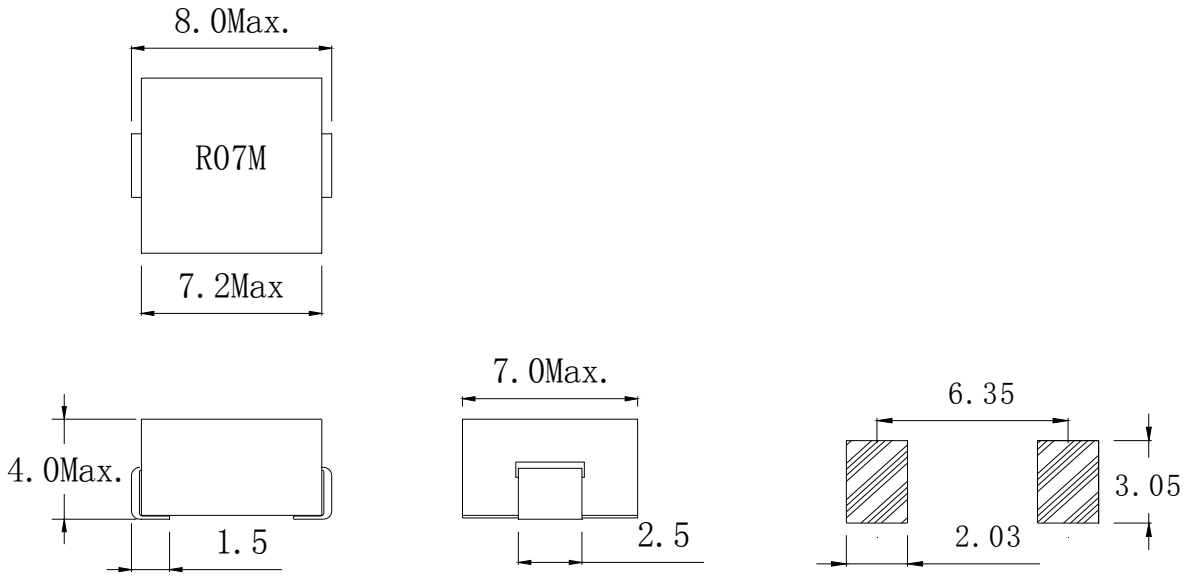
UI High Current Type
HGPB0804 Series

•Dimensions (mm)



Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			25℃	100℃	
HGPB0804-R07M	70±20%	0.5±10%	63	60	31
HGPB0804-R10M	100±20%	0.5±10%	46	40	31
HGPB0804-R14M	140±20%	0.5±10%	34	28	31
HGPB0804-R18M	175±20%	0.5±10%	26	22	31

1. **Measuring frequency at 100kHz,0.1V**
2. **Saturation current : DC current that will cause Lo to drop approximately 20%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -40℃ to +125℃**
6. **Packing：Carrier type，Quantity：1200pcs/Reel**

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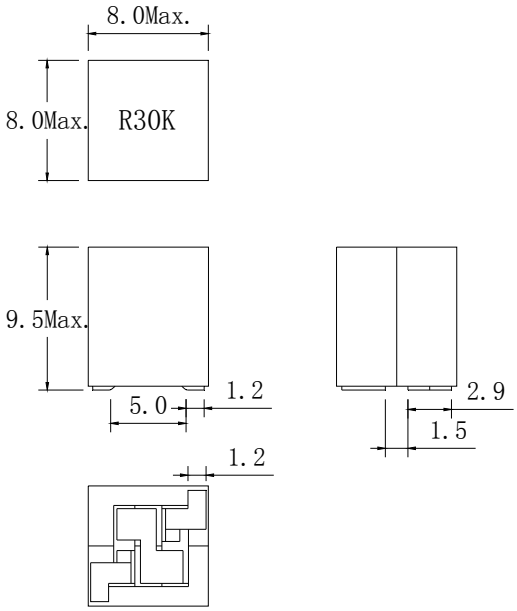
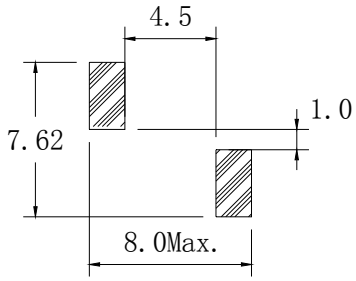
Highlight ®

RoHS

UI High Current Type
HGPB0809 Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)			Temperature rise current (A)
			25℃	100℃	125℃	
HGPB0809-R30K	300±10%	0.8±15%	67	54	50	28
HGPB0809-R40K	400±10%	0.8±15%	50	40	37	28
HGPB0809-R47K	470±10%	0.8±15%	41	33	31	28
HGPB0809-R60K	600±10%	0.8±15%	32	26	24	28
HGPB0809-R80K	800±10%	0.8±15%	24	19	18	28
HGPB0809-1R0K	1000±10%	0.8±15%	19	15	14	28

1. **Measuring frequency at 100kHz,1V**
2. **Saturation current : DC current that will cause Lo to drop approximately 20%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -40℃ to +125℃**
6. **Packing：Carrier type，Quantity：400pcs/Reel**

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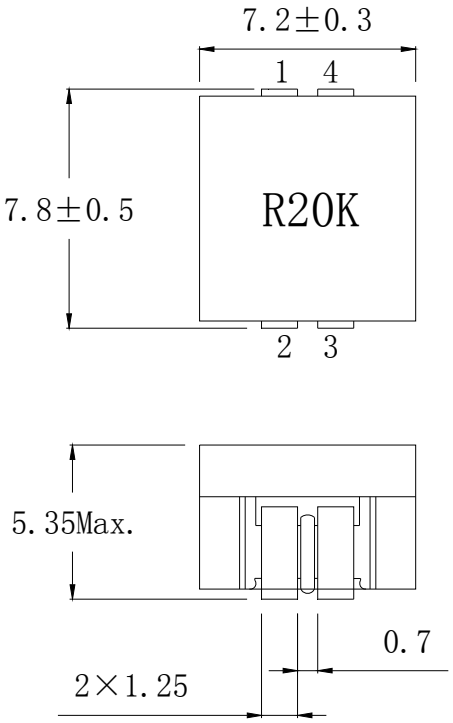
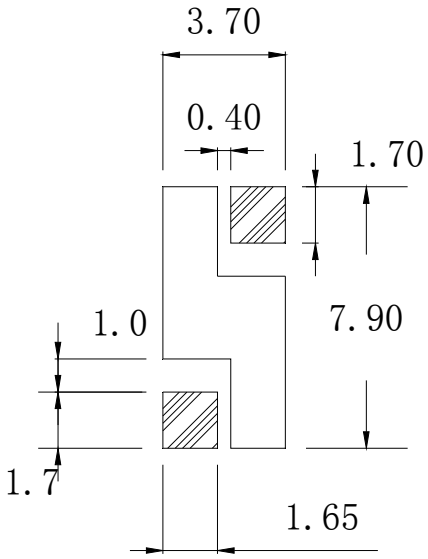
UI High Current Type
HGPB0805 Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			25℃	100℃	
HGPB0805-R20K	200±10%	0.65±10%	25	21	13
HGPB0805-R23K	230±10%	0.65±10%	23	19.5	13

1. **Measuring frequency at 100kHz,0.1V**
2. **Saturation current : DC current that will cause Lo to drop approximately 20%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -40℃ to +125℃**
6. **Packing：Carrier type，Quantity：800pcs/Reel**

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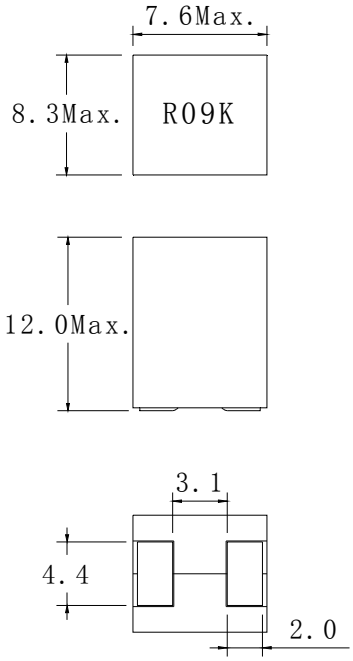
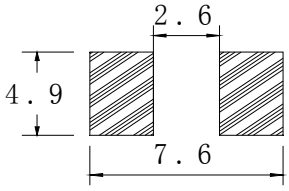
UI High Current Type
HGPB0812 Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)			Temperature rise current (A)
			25℃	100℃	125℃	
HGPB0812-R09K	90±10%	0.155±10%	137	116	110	60
HGPB0812-R10K	100±10%	0.155±10%	124	105	99	60
HGPB0812-R11K	110±10%	0.155±10%	112	95	90	60
HGPB0812-R12K	120±10%	0.155±10%	103	87	82	60
HGPB0812-R13K	130±10%	0.155±10%	95	81	76	60

1. **Measuring frequency at 100kHz, 1V**
2. **Saturation current : DC current that will cause Lo to drop approximately 20%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -40℃ to +125℃**
6. **Packing：Carrier type，Quantity：300pcs/Reel**

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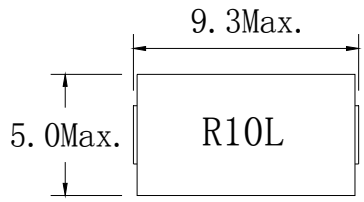
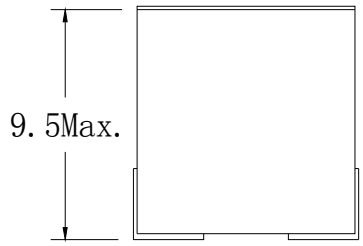
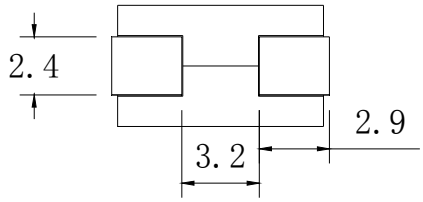
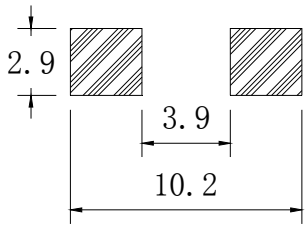
UI High Current Type
HGPB0909 Series

•Dimensions (mm)









Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)			Temperature rise current (A)
			25℃	100℃	125℃	
HGPB0909-R10L	100±15%	0.125±10%	90	73	67	63
HGPB0909-R15L	150±15%	0.125±10%	61	49	45	63

1. Measuring frequency at 100kHz,1V
2. Saturation current : DC current that will cause Lo to drop approximately 30%.
3. Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.
4. All test data is referenced to 25℃ ambient.
5. Operating Temperature Range -40℃ to +125℃
6. Packing：Carrier type，Quantity：400pcs/Reel

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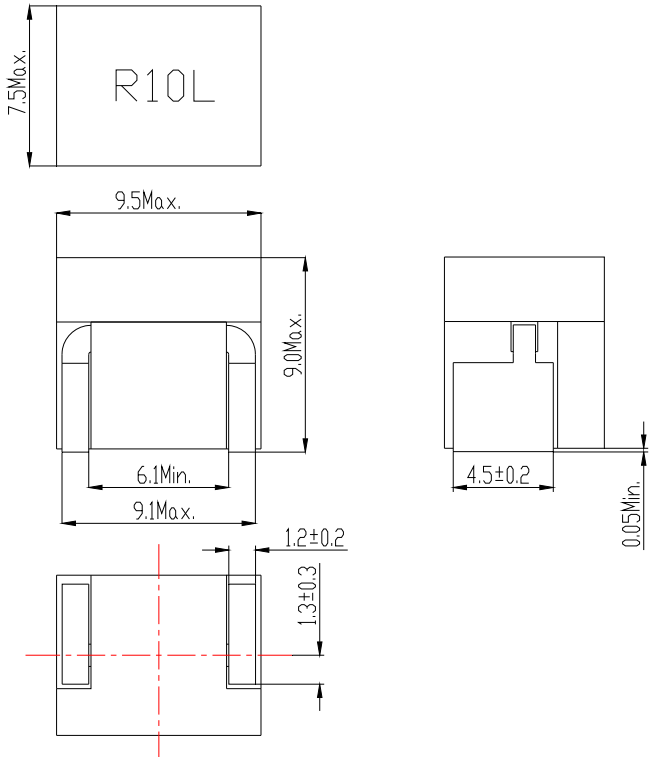
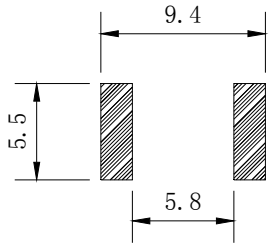
UI High Current Type
HGPB99 Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	Inductance L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			25℃	100℃	
HGPB99-R10L	100±15%	0.2 Max	80	70	50

1. Measuring frequency at 800kHz,1V
2. Saturation current : DC current that will cause Lo to drop approximately 20%.
3. Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.
4. All test data is referenced to 25℃ ambient.
5. Operating Temperature Range -40℃ to +125℃
6. Packing：Carrier type，Quantity：500pcs/Reel

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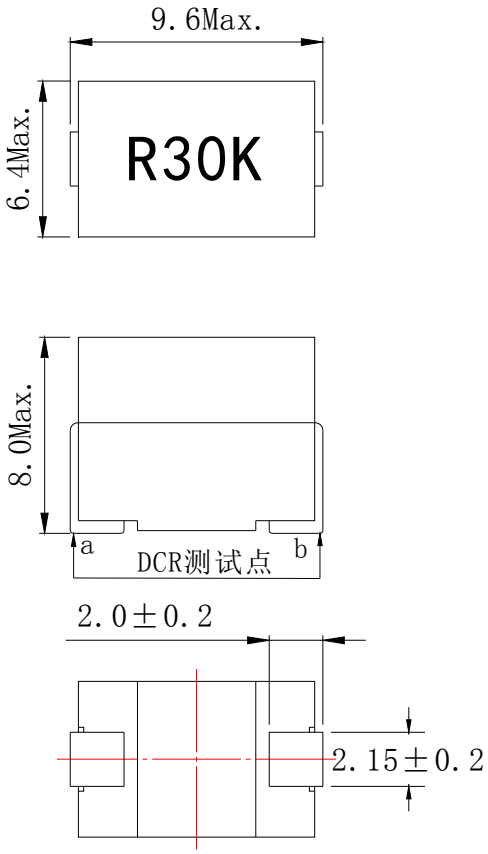
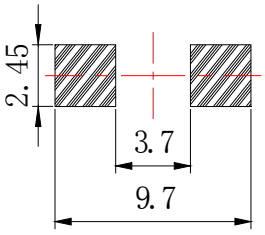
UI High Current Type
HGPB98 Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	Inductance L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			25℃	100℃	
HGPB98-R30K	300.0±10%	0.29±5%	33	26	51

1. Measuring frequency at 100kHz,1V
2. Saturation current : DC current that will cause Lo to drop approximately 30%.
3. Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.
4. All test data is referenced to 25℃ ambient.
5. Operating Temperature Range -40℃ to +125℃
6. Packing：Carrier type，Quantity：600pcs/Reel

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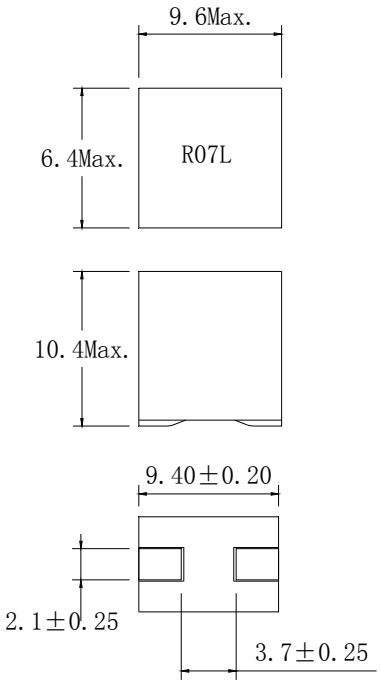
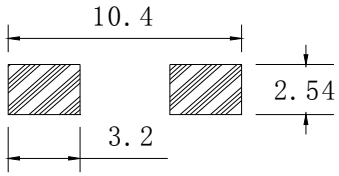
RoHS

UI High Current Type
HGPB0910Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)			Temperature rise current (A)
			25℃	100℃	125℃	
HGPB0910-R07L	70±15%	0.145±10%	125	125	125	78
HGPB0910-R08L	80±15%	0.145±10%	125	125	120	78
HGPB0910-R10L	100±15%	0.145±10%	113	96	89	78
HGPB0910-R12L	120±15%	0.145±10%	102	86	81	78
HGPB0910-R15L	150±15%	0.145±10%	76	64	60	78

1. **Measuring frequency at 100kHz,0.1V**
2. **Saturation current : DC current that will cause Lo to drop approximately 20%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -40℃ to +125℃**
6. **Packing：Carrier type，Quantity：300pcs/Reel**

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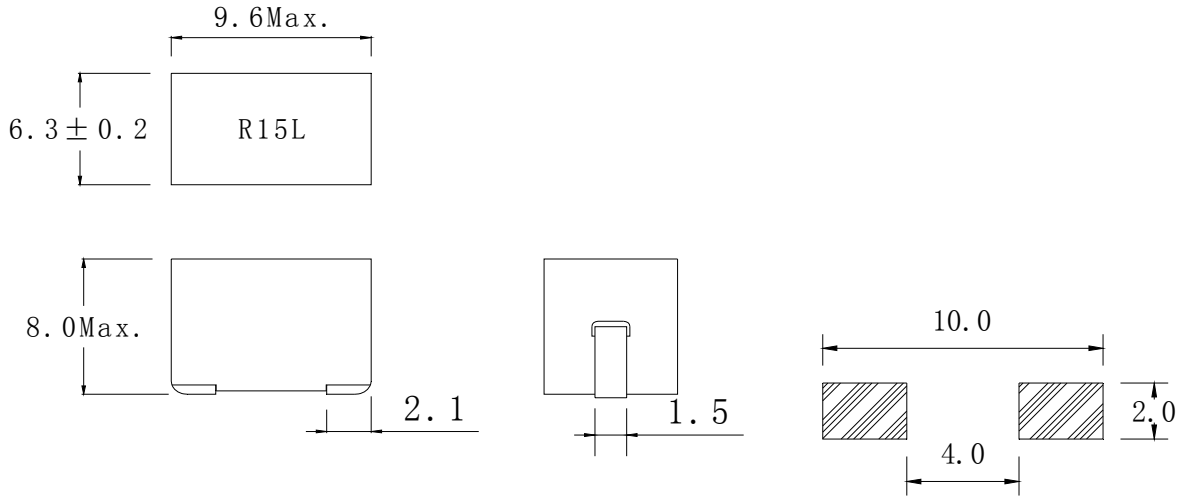
Highlight ®

RoHS

UI High Current Type
HGPB0908 Series

•Dimensions (mm)



Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturaeion Current(A)			Temperature rise current (A)
			25 ℃	100 ℃	125 ℃	
HGPB0908-R15L	150±15%	0.29±10%	70	57.5	54	64
HGPB0908-R22L	220±15%	0.29±10%	45	35	32.5	64
HGPB0908-R28L	280±15%	0.29±10%	36.5	27	25.5	64
HGPB0908-R30L	300±15%	0.29±10%	34	25.5	24	64

1. Measuring frequency at 100kHz,0.1V
2. Saturation current : DC current that will cause Lo to drop approximately 20%.
3. Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.
4. All test data is referenced to 25℃ ambient.
5. Operating Temperature Range -40℃ to +125℃
6. Packing：Carrier type，Quantity：550pcs/Reel

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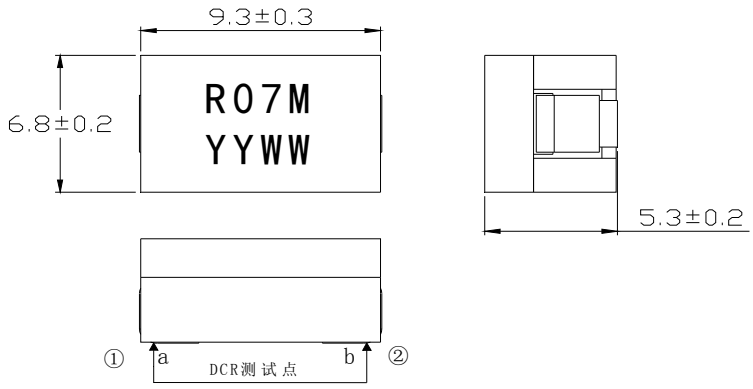
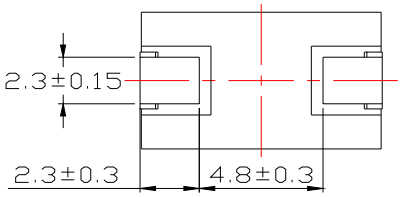
Highlight ®

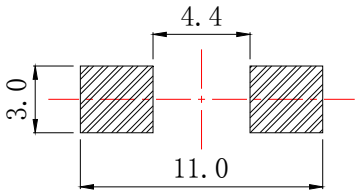
RoHS

UI High Current Type
HGPB95 Series

•Dimensions (mm)







Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)			Temperature rise current (A)
			25℃	100℃	125℃	
HGPB95-R07M	70±15%	0.14±10%	100	85	75	65

1. Measuring frequency at 100kHz,1V
2. Saturation current : DC current that will cause Lo to drop approximately 40%.
3. Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.
4. All test data is referenced to 25℃ ambient.
5. Operating Temperature Range -40℃ to +125℃
6. Packing：Carrier type，Quantity：800cs/Reel

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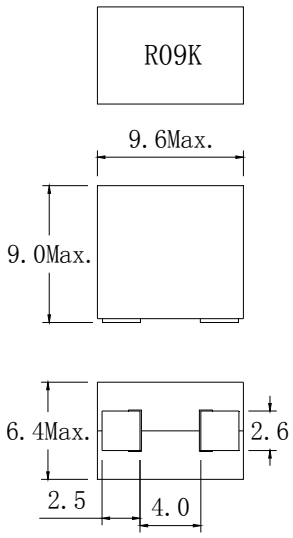
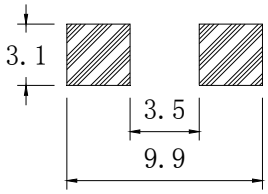
RoHS

UI High Current Type
HGPB0909A/B Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)			Temperature rise current (A)
			25℃	100℃	125℃	
HGPB0909A-R09K	90±10%	0.17±10%	134	114	107	66
HGPB0909A -R10K	100±10%	0.17±10%	112	97	90	66
HGPB0909A -R12K	120±10%	0.17±10%	94	80	75	66
HGPB0909A -R15K	150±10%	0.17±10%	75	64	60	66
HGPB0909A -R17K	170±10%	0.17±10%	65	55	52	66
HGPB0909A -R18K	180±10%	0.17±10%	60	51	48	66
HGPB0909A -R21K	210±10%	0.17±10%	47	40	37.5	66
HGPB0909B-R22K	220±10%	0.17±10%	44	37	34	66
HGPB0909B -R30K	300±10%	0.17±10%	33	28	26	66
HGPB0909B -R40K	400±10%	0.17±10%	21	17.5	16	66
HGPB0909B -R47K	470±10%	0.17±10%	17	14.5	13	66

1. **Measuring frequency at 100kHz,1V**
2. **Saturation current : DC current that will cause Lo to drop approximately 30%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -40℃ to +125℃**
6. **Packing：Carrier type，Quantity：300pcs/Reel**

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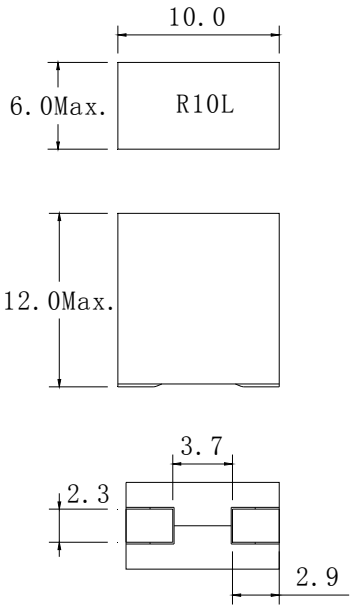
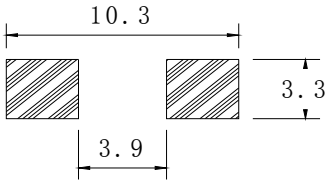
UI High Current Type
HGPB1012 Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)			Temperature rise current (A)
			25℃	100℃	125℃	
HGPB1012-R10L	100±15%	0.125±10%	125	105	95	77
HGPB1012-R12L	120±15%	0.125±10%	105	88	81	77
HGPB1012-R15L	150±15%	0.125±10%	83	78	71	77
HGPB1012-R33L	330±15%	0.125±10%	40	32	28	77

1. **Measuring frequency at 100kHz,0.1V**
2. **Saturation current : DC current that will cause Lo to drop approximately 20%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -40℃ to +125℃**
6. **Packing：Carrier type，Quantity：400pcs/Reel**

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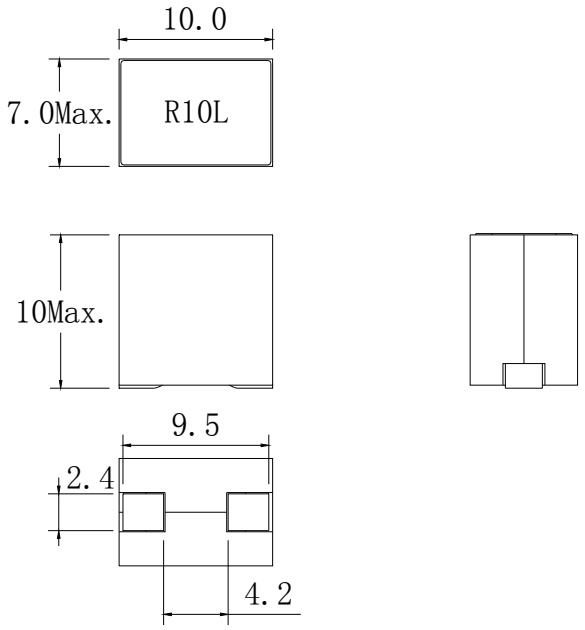
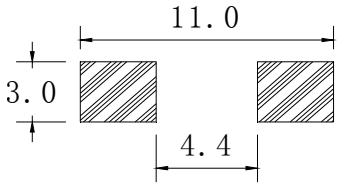
Highlight ®

RoHS

UI High Current Type
HGPB1010 Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)			Temperature rise current (A)
			25℃	100℃	125℃	
HGPB1010-R10L	100±15%	0.185±10%	113	86	81	68
HGPB1010-R12L	120±15%	0.185±10%	94	81	78	68
HGPB1010-R15L	150±15%	0.185±10%	80	75	73	68
HGPB1010-R22L	220±15%	0.185±10%	70	52	48	68
HGPB1010-R33L	330±15%	0.185±10%	43	33	31	68

1. **Measuring frequency at 100kHz,0.1V**
2. **Saturation current : DC current that will cause Lo to drop approximately 20%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -40℃ to +125℃**
6. **Packing：Carrier type，Quantity：500pcs/Reel**

Addr: No.11 bld,Tangtou 3th Industrial Zone,Shiyan town,Baoan District,,Shenzhen,CHINA.
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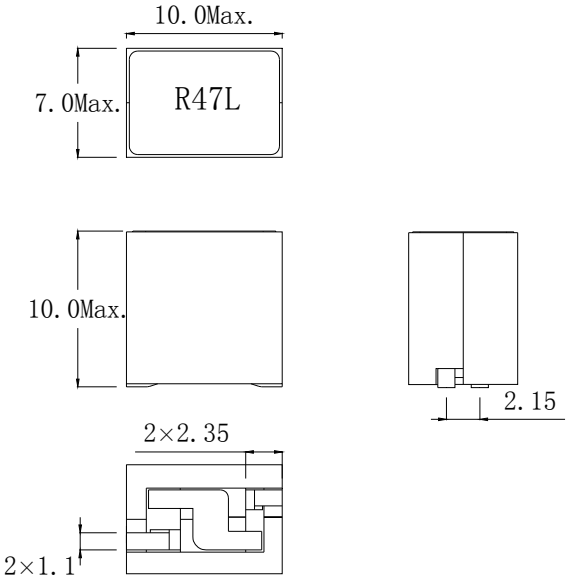
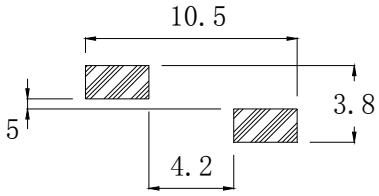
Highlight ®

RoHS

UI High Current Type
HGPB1010A Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)			Temperature rise current (A)
			25℃	100℃	125℃	
HGPB1010A-R47L	470±15%	0.81±10%	43.0	33.5	30.5	30
HGPB1010A-R10L	1000±15%	0.81±10%	20.5	16.2	14.8	30

1. **Measuring frequency at 100kHz,0.1V**
2. **Saturation current : DC current that will cause Lo to drop approximately 20%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -40℃ to +125℃**
6. **Packing：Carrier type，Quantity：500pcs/Reel**

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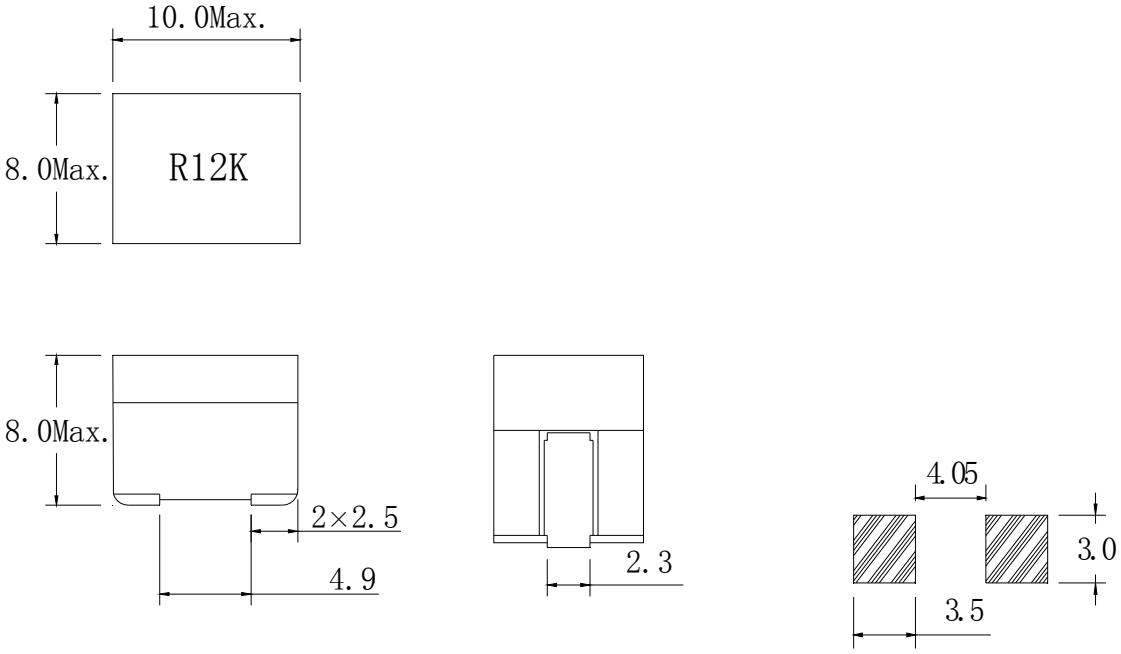
Highlight ®

RoHS

UI High Current Type
HGPB1008 Series

•Dimensions (mm)



Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			25℃	100℃	
HGPB1008-R12K	120±10%	0.18±10%	94	84	70
HGPB1008-R15K	150±10%	0.18±10%	83	67	70
HGPB1008-R18K	180±10%	0.18±10%	67	55	70

1. **Measuring frequency at 100kHz,0.1V**
2. **Saturation current : DC current that will cause Lo to drop approximately 20%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -40℃ to +125℃**
6. **Packing：Carrier type，Quantity：450pcs/Reel**

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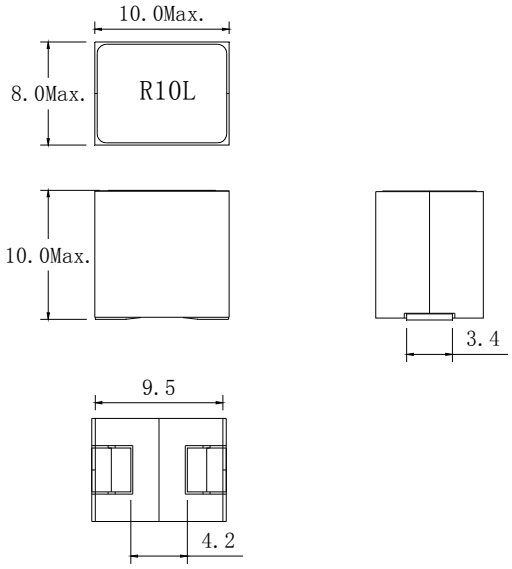
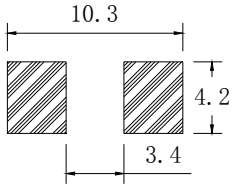
UI High Current Type
HGPB0810 Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)			Temperature rise current (A)
			25℃	100℃	125℃	
HGPB0810-R10L	100±15%	0.15±10%	126	108	95	70
HGPB0810-R12L	120±15%	0.15±10%	105	90	76	70
HGPB0810-R15L	150±15%	0.15±10%	80	71	64	70
HGPB0810-R17L	175±15%	0.15±10%	70	60	53	70
HGPB0810-R27L	270±15%	0.15±10%	47	40	35	70
HGPB0810-R33L	330±15%	0.15±10%	40	31	27	70

1. **Measuring frequency at 100kHz,0.1V**
2. **Saturation current : DC current that will cause Lo to drop approximately 20%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -40℃ to +125℃**
6. **Packing：Carrier type，Quantity：300pcs/Reel**

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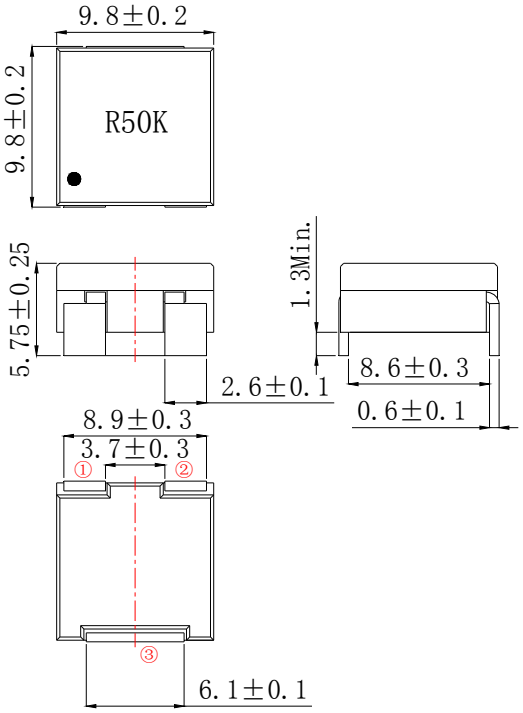
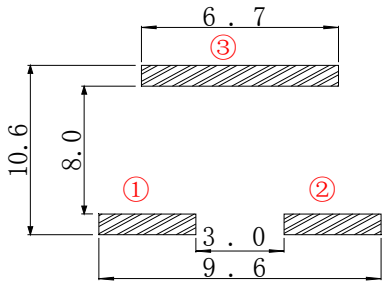
RoHS

UI High Current Type
HGPB1060 Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	Inductance L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			25℃	125℃	
HGPB1060-R50K	500±15%	0.66±10%	26	20	20

1. Measuring frequency at 1MHz,1V
2. Saturation current : DC current that will cause Lo to drop approximately 20%.
3. Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.
4. All test data is referenced to 25℃ ambient.
5. Operating Temperature Range -40℃ to +125℃
6. Packing：Carrier type，Quantity：600pcs/Reel

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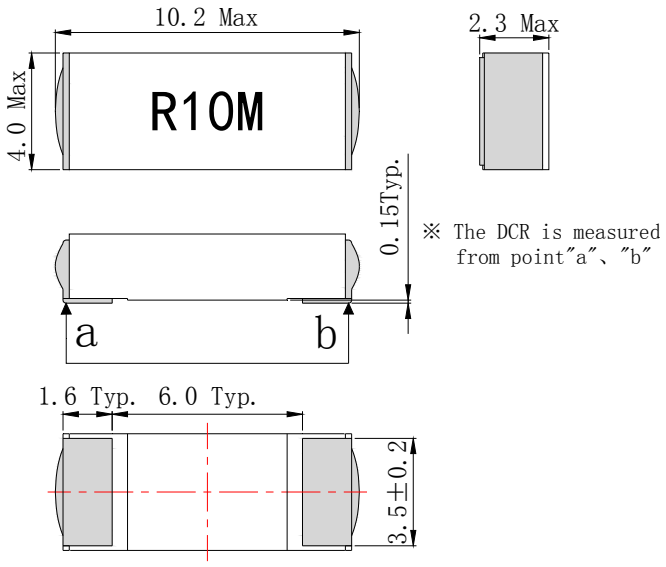
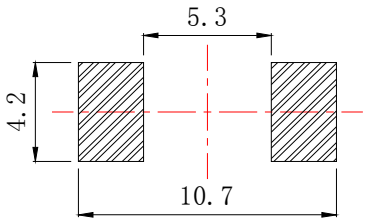
RoHS

UI High Current Type
HGPB1020 Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	INDUCTANCE L(at 70A) (nH)		D.C.R. (mΩ)	Temperature rise current (A)
		25℃	125℃		
HGPB1020-R10M	100±20%	45 Min	45 Min	0.30±10%	35

1. Measuring frequency at 1MHz,1V
2. Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.
3. All test data is referenced to 25℃ ambient.
4. Operating Temperature Range -40℃ to +125℃
5. Packing：Carrier type，Quantity：500pcs/Reel

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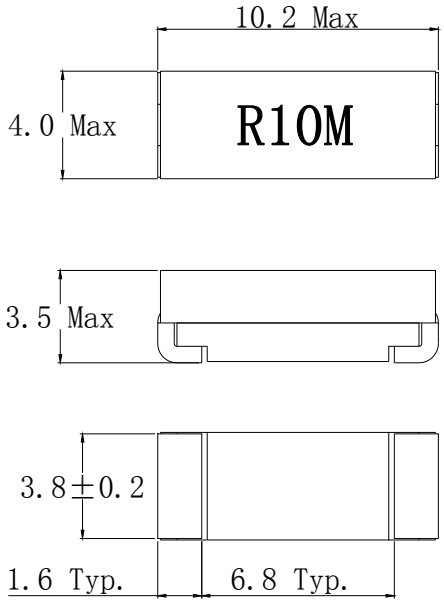
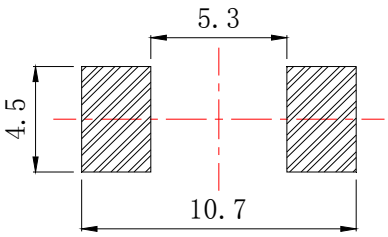
RoHS

UI High Current Type
HGPB1035 Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	INDUCTANCE L(at 90A) (nH)		D.C.R. (mΩ)	Temperature rise current (A)
		25℃	125℃		
HGPB1035-R10M	100±20%	50 Min	50 Min	0.23±10%	50

1. Measuring frequency at 1MHz,1V
2. Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.
3. All test data is referenced to 25℃ ambient.
4. Operating Temperature Range -40℃ to +125℃
5. Packing：Carrier type，Quantity：500pcs/Reel

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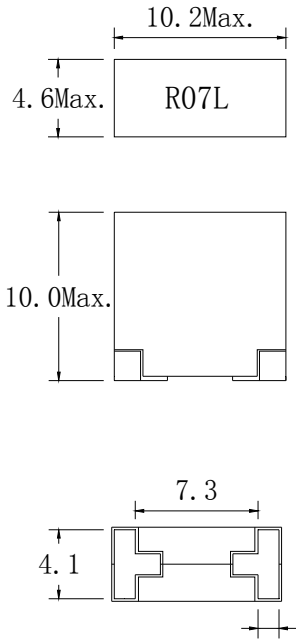
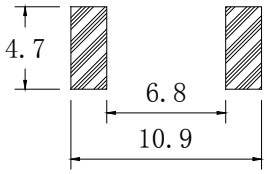
UI High Current Type
HGPB0410 Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)			Temperature rise current (A)
			25℃	100℃	125℃	
HGPB0410-R07L	70±15%	0.23±10%	141	120	113	70
HGPB0410-R07L	90±15%	0.23±10%	109	93	87	70
HGPB0410-R07L	100±15%	0.23±10%	98	83	78	70
HGPB0410-R07L	120±15%	0.23±10%	82	70	66	70
HGPB0410-R07L	150±15%	0.23±10%	65	55	52	70

1. **Measuring frequency at 100kHz,1V**
2. **Saturation current : DC current that will cause Lo to drop approximately 30%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -40℃ to +125℃**
6. **Packing：Carrier type，Quantity：500pcs/Reel**

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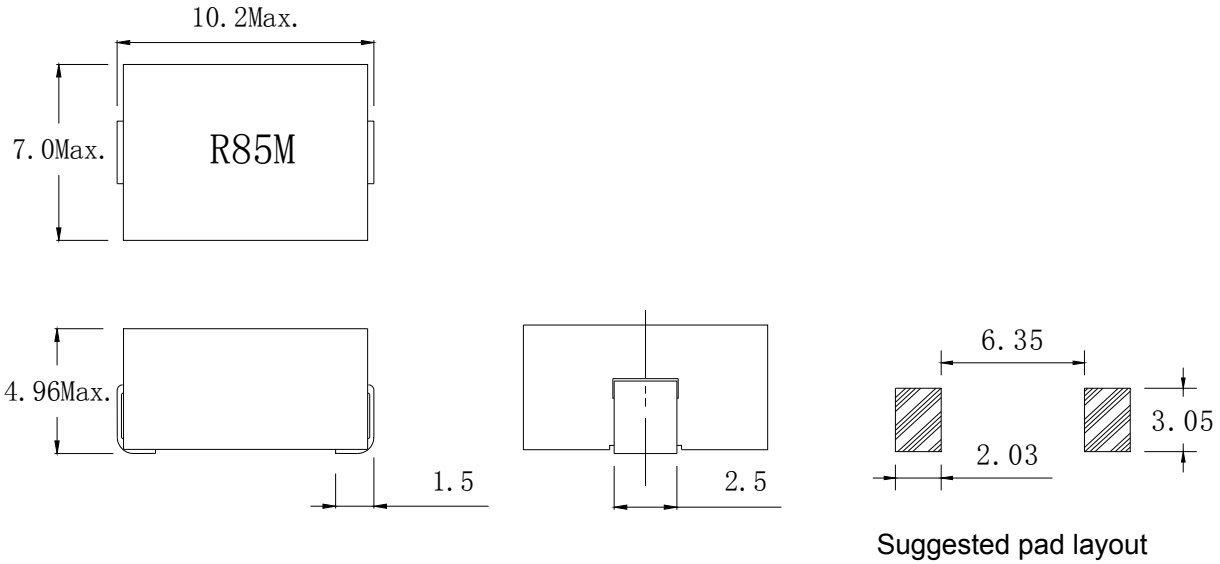
RoHS

UI High Current Type
HGPB75 Series

•Dimensions (mm)



Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			25℃	100℃	
HGPB75A-R85M	85±20%	0.39±10%	70	70	31
HGPB75A-R10M	100±20%	0.39±10%	70	65	31
HGPB75A-R12M	120±20%	0.39±10%	52	42	31
HGPB75A-R15M	155±20%	0.39±10%	40	36	31
HGPB75A-R22M	220±20%	0.39±10%	33	25	31
HGPB75B-R85M	85±20%	0.55±10%	70	70	31
HGPB75B-R10M	100±20%	0.55±10%	70	65	31
HGPB75B-R12M	120±20%	0.55±10%	52	42	31
HGPB75B-R15M	155±20%	0.55±10%	40	36	31
HGPB75B-R22M	220±20%	0.55±10%	33	25	31

1. **Measuring frequency at 100kHz,0.1v**
2. **Saturation current : DC current that will cause Lo to drop approximately 20%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -40℃ to +125℃**
6. **Packing：Carrier type，Quantity：1000pcs/Reel**

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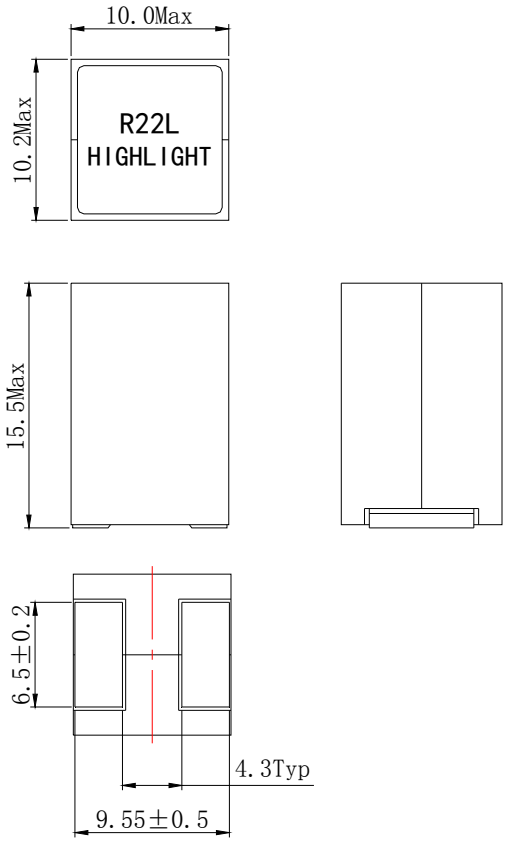
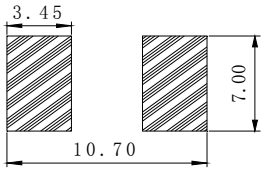
UI High Current Type
HGPB1015 Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	Inductance L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			25℃	100℃	
HGPB1015-R22L	220.0±15%	0.08±10%	80	66	80
HGPB1015-R33L	330.0±15%	0.08±10%	55	42	80

1. **Measuring frequency at 100kHz,0.1v**
2. **Saturation current : DC current that will cause Lo to drop approximately 20%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -40℃ to +125℃**
6. **Packing：Carrier type，Quantity：200pcs/Reel**

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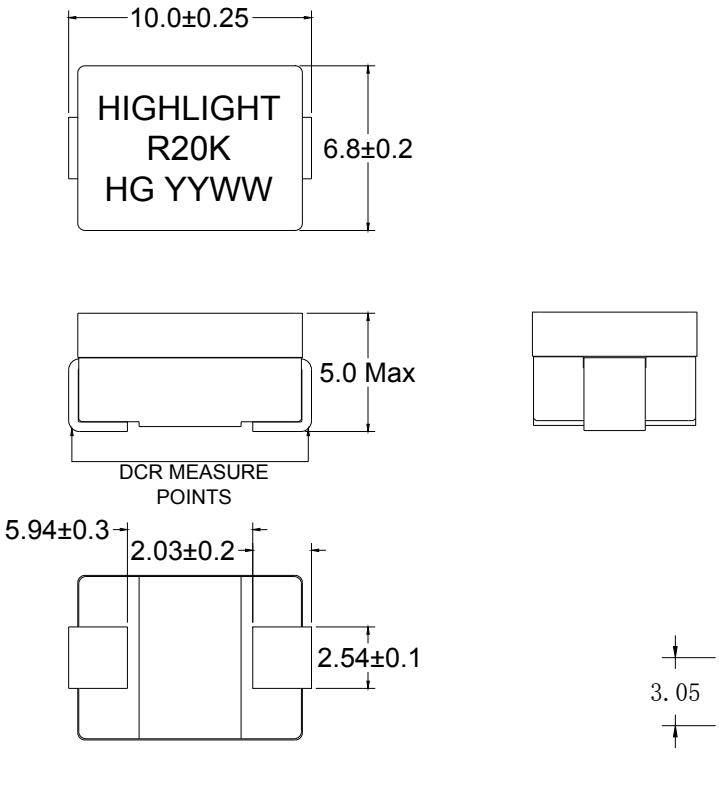
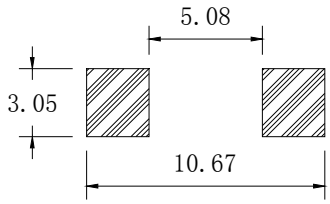
RoHS

UI High Current Type
HGPB1005A Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	Inductance L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)	Temperature rise current (A)
			25℃	
HGPB1005A-R20K	200±10%	0.29±7%	43	41

1. **Measuring frequency at 100kHz,1V**
2. **Saturation current : DC current that will cause Lo to drop approximately 30%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 50℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -40℃ to +125℃**
6. **Packing：Carrier type，Quantity：1000pcs/Reel**

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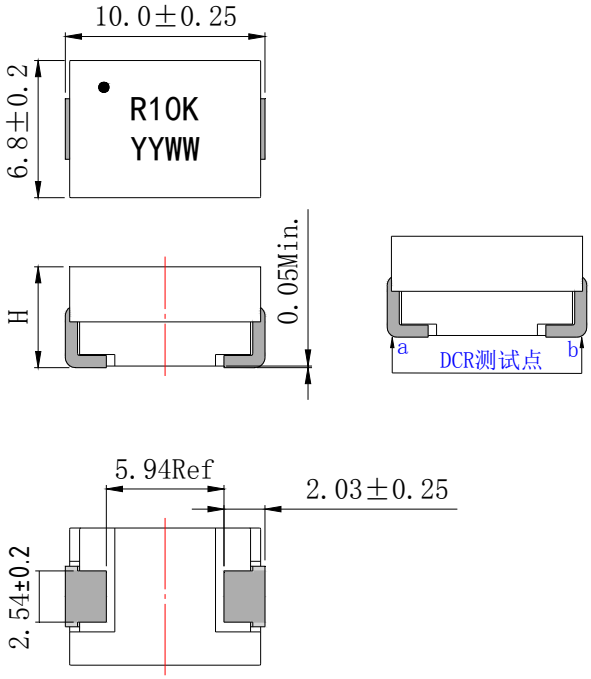
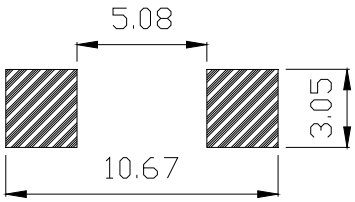
RoHS

UI High Current Type
HGPB75 Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)			Temperature rise current (A)	Height (mm)
			25℃	100℃	125℃		
HGPB75-R10K	100±10%	0.125±10%	60	55	48	40	5.2 Max
HGPB75-R16M	160±15%	0.23±8%	53	45	45	53	5.0 Max

1. Measuring frequency at 100kHz,0.1V
2. Saturation current : DC current that will cause Lo to drop approximately 40%.
3. Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.
4. All test data is referenced to 25℃ ambient.
5. Operating Temperature Range -40℃ to +125℃
6. Packing：Carrier type，Quantity：1000cs/Reel

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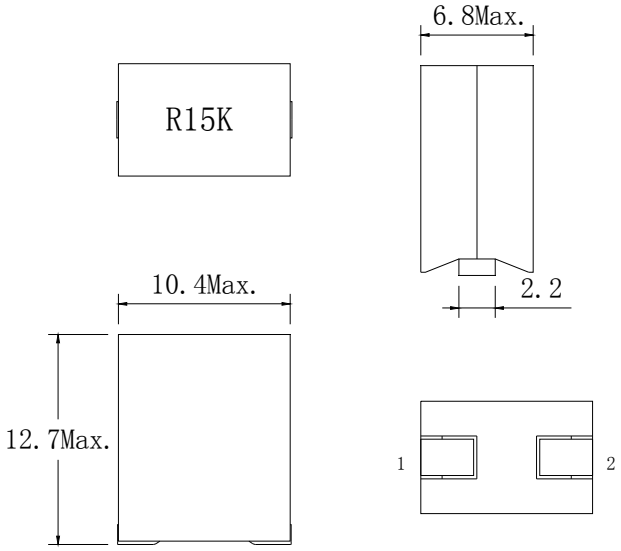
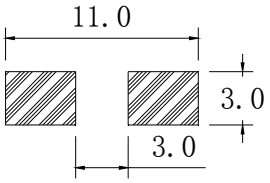
RoHS

UI High Current Type
HGPB1013 Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			25℃	100℃	
HGPB1013-R15K	150±10%	0.29±10%	75	75	58
HGPB1013-R18K	180±10%	0.29±10%	75	75	58
HGPB1013-R23K	230±10%	0.29±10%	75	62	58
HGPB1013-R36K	360±10%	0.29±10%	46	36	58
HGPB1013-R47K	470±10%	0.29±10%	35	25	58

1. **Measuring frequency at 100kHz,0.1V**
2. **Saturation current : DC current that will cause Lo to drop approximately 20%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -40℃ to +125℃**
6. **Packing：Carrier type，Quantity：400pcs/Reel**

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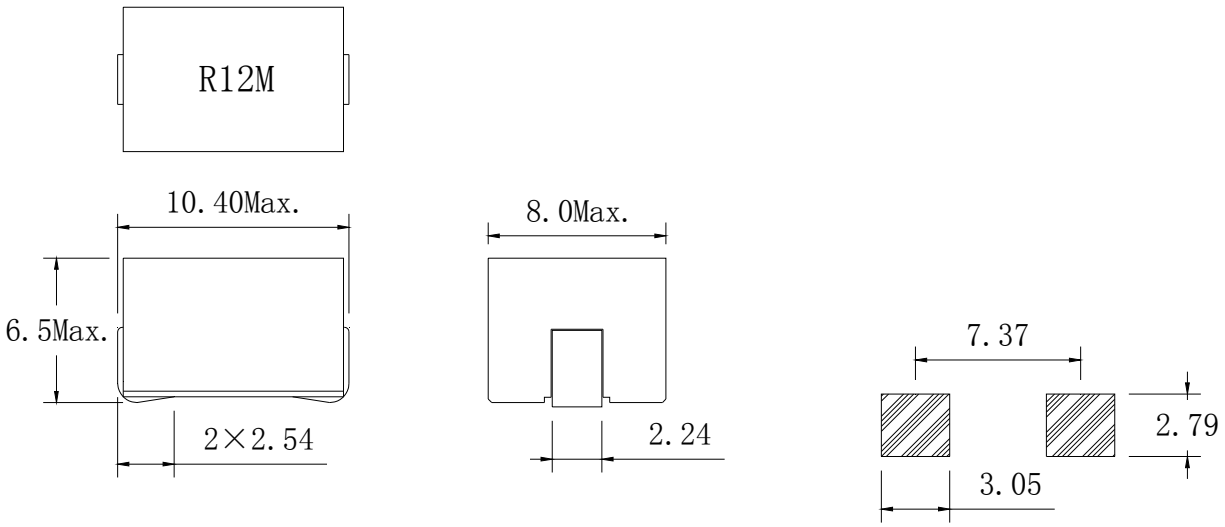
UI High Current Type
HGPB1006 Series

•Dimensions (mm)



Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			25℃	100℃	
HGPB1006-R12M	120±20%	0.48±10%	90	73	40
HGPB1006-R14M	140±20%	0.48±10%	76	64	40
HGPB1006-R18M	180±20%	0.48±10%	54.5	52	40
HGPB1006-R02M	200±20%	0.48±10%	55	45	40
HGPB1006-R31M	310±20%	0.48±10%	34	29.5	40

1. **Measuring frequency at 100kHz,0.1V**
2. **Saturation current : DC current that will cause Lo to drop approximately 20%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -40℃ to +125℃**
6. **Packing：Carrier type，Quantity：750pcs/Reel**

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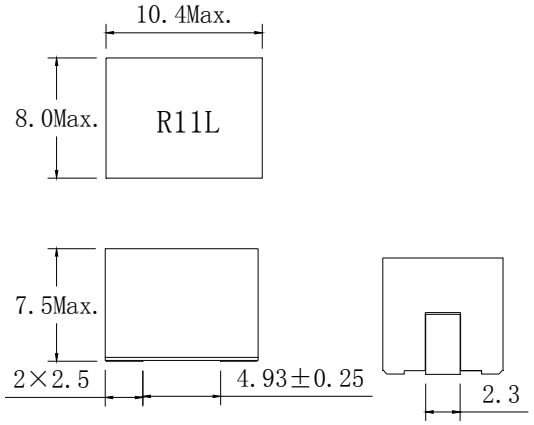
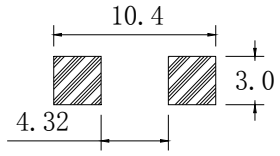
Highlight ®

RoHS

UI High Current Type
HGPB1007 Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			25℃	100℃	
HGPB1007-R12L	115±15%	0.29±10%	94	80	41
HGPB1007-R15L	150±15%	0.29±10%	72	61	41
HGPB1007-R18L	175±15%	0.29±10%	62	53	41
HGPB1007-R22L	215±15%	0.29±10%	48	41	41
HGPB1007-R23L	230±15%	0.29±10%	43	37	41
HGPB1007-R27L	270±15%	0.29±10%	37	34	41
HGPB1007-R30L	300±15%	0.29±10%	32	28	41

1. **Measuring frequency at 100kHz,0.1V**
2. **Saturation current : DC current that will cause Lo to drop approximately 20%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -40℃ to +125℃**
6. **Packing：Carrier type，Quantity：500pcs/Reel**

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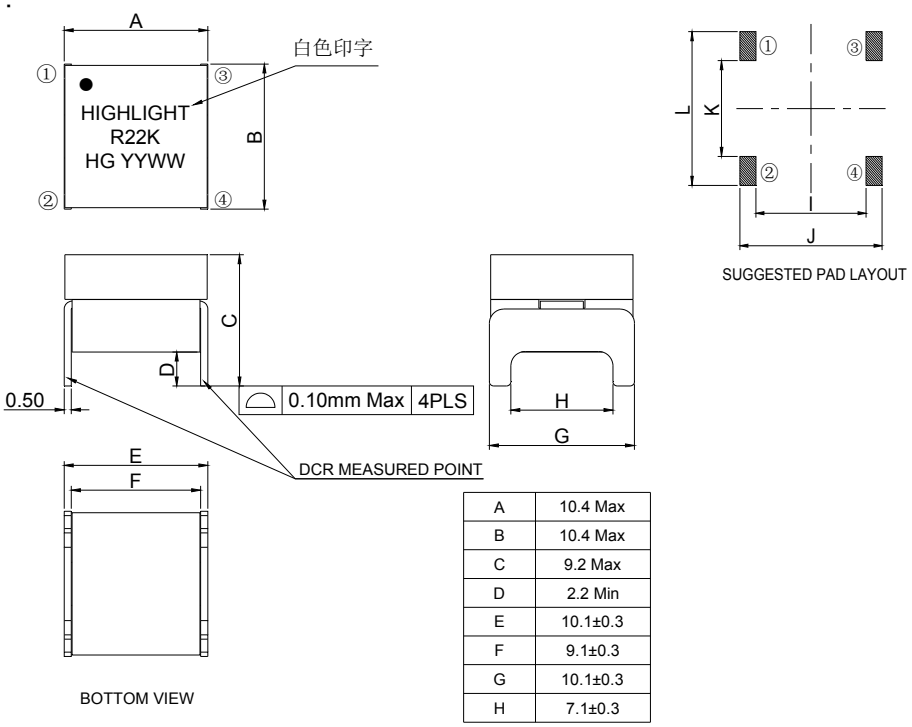
UI High Current Type
HGPB1009 Series

•Dimensions (mm)



I	8.6
J	11.1
K	6.6
L	10.6

A	10.4 Max
B	10.4 Max
C	9.2 Max
D	2.2 Min
E	10.1±0.3
F	9.1±0.3
G	10.1±0.3
H	7.1±0.3

Units: mm

•Electrical Characteristics

Part No.	Inductance L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)	Temperature rise current (A)
			100℃	
HGPB1009-R22K	220±10%	0.31±8%	50	40
HGPB1009-R33K	330±10%	0.31±10%	40	40

1. **Measuring frequency at 100kHz,1V**
2. **Saturation current : DC current that will cause Lo to drop approximately 30%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -40℃ to +125℃**
6. **Packing：Carrier type，Quantity：400 pcs/Reel**

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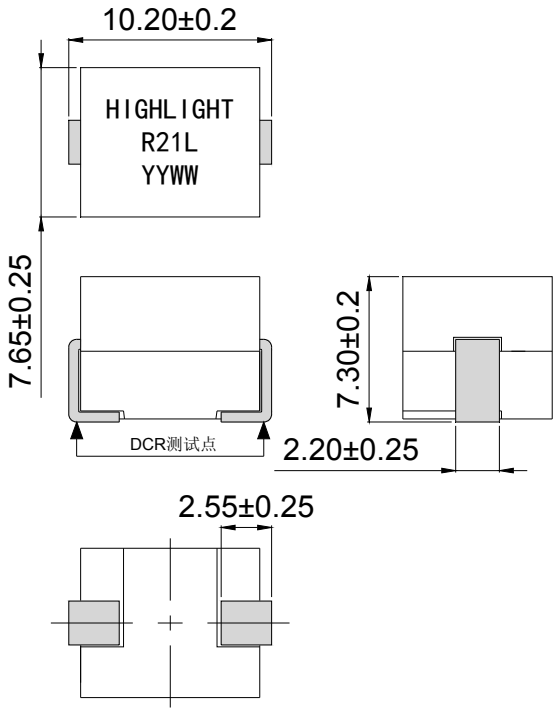
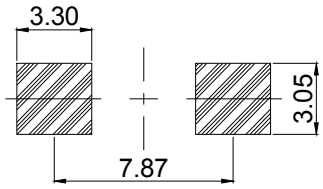
RoHS

UI High Current Type
HGPB1070 Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	Inductance L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			25℃	100℃	
HGPB1070-R21L	215.0±15%	0.29±7%	48	41	41

1. Measuring frequency at 100kHz,0.1v
2. Saturation current : DC current that will cause Lo to drop approximately 20%.
3. Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.
4. All test data is referenced to 25℃ ambient.
5. Operating Temperature Range -40℃ to +125℃
6. Packing：Carrier type，Quantity：500pcs/Reel

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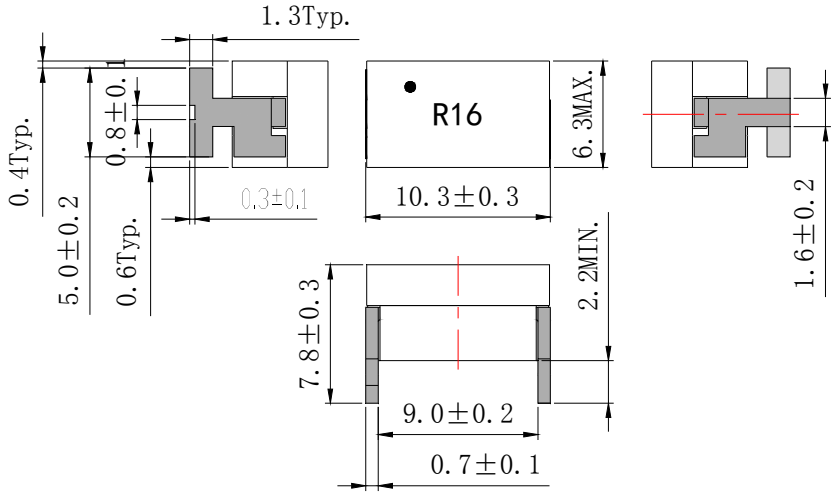
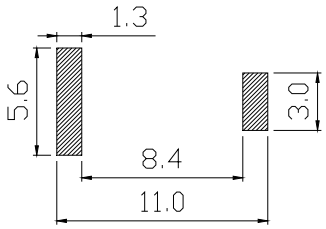
RoHS

UI High Current Type
HGPB1078 Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	Inductance L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			20℃	100℃	
HGPB1078-R16L	160±15%	0.35 Max	60	50	40

1. Measuring frequency at 100kHz,1V
2. Saturation current : DC current that will cause Lo to drop approximately 20%.
3. Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.
4. All test data is referenced to 25℃ ambient.
5. Operating Temperature Range -40℃ to +125℃
6. Packing：Carrier type，Quantity：500pcs/Reel

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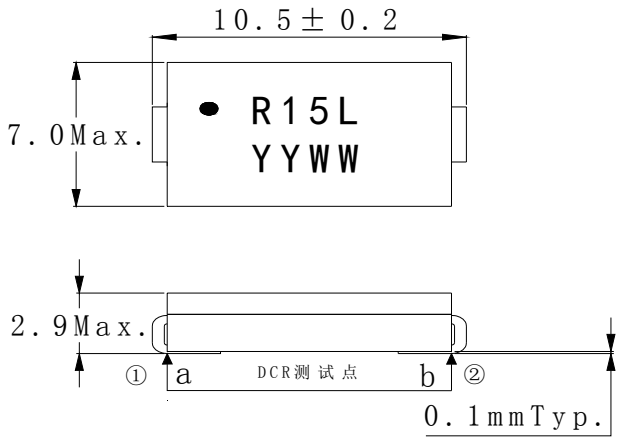
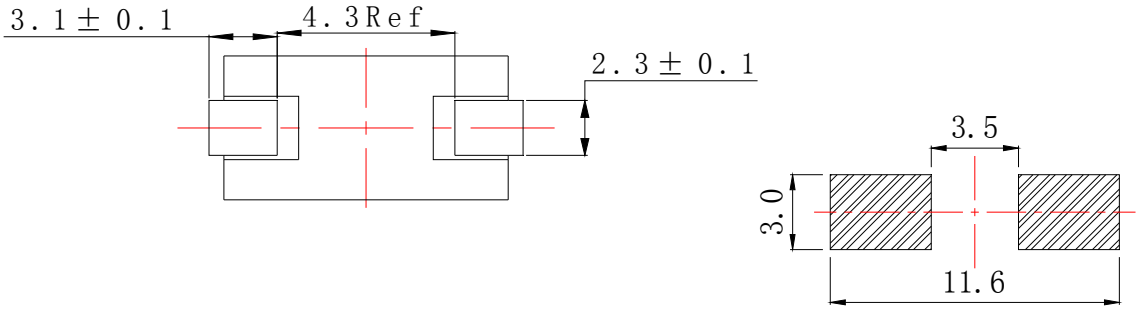
Highlight ®

RoHS

UI High Current Type
HGPB1028 Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	Inductance L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)	Temperature rise current (A)
			25℃	
HGPB1028-R15L	150±20	0.4 Max	60	40

1. Measuring frequency at 100kHz,1V
2. Saturation current : DC current that will cause Lo to drop approximately 25%.
3. Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.
4. All test data is referenced to 25℃ ambient.
5. Operating Temperature Range -40℃ to +125℃
6. Packing：Carrier type，Quantity： 1200pcs/Reel

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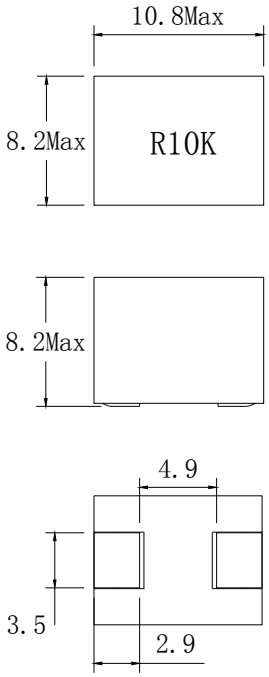
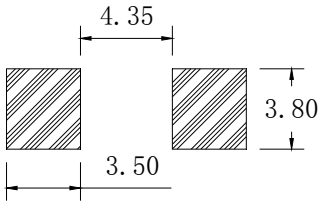
UI High Current Type
HGPB1082 Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			25℃	100℃	
HGPB1082-R10K	100±10%	0.12±10%	100	84	67
HGPB1082-R12K	120±10%	0.12±10%	92	78	67
HGPB1082-R15K	150±10%	0.12±10%	75	65	67
HGPB1082-R18K	180±10%	0.12±10%	55	48	67

1. Measuring frequency at 100kHz,0.1V
2. Saturation current : DC current that will cause Lo to drop approximately 20%.
3. Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.
4. All test data is referenced to 25℃ ambient.
5. Operating Temperature Range -40℃ to +125℃
6. Packing：Carrier type，Quantity：450pcs/Reel

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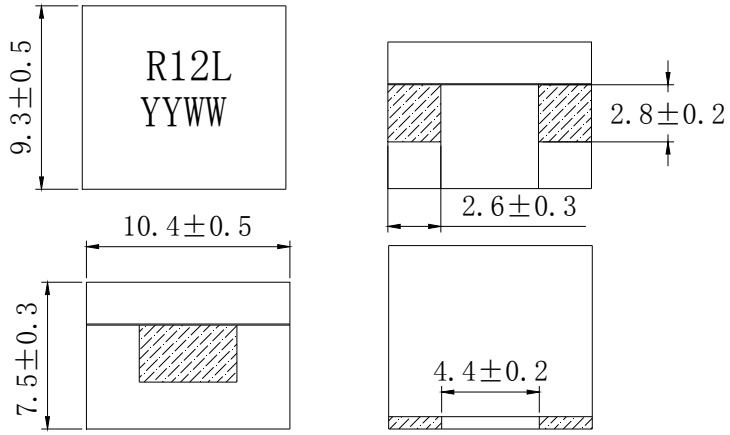
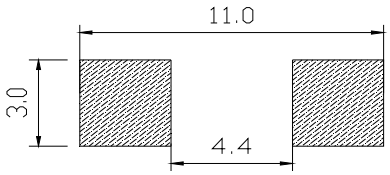
Highlight ®

RoHS

UI High Current Type
HGPB0709 Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)			Temperature rise current (A)
			25℃	100℃	125℃	
HGPB0709-R12L	120±15%	0.25±10%	75	75	75	55
HGPB0709-R33L	330±15%	0.25±10%	43	33	31	55

1. Measuring frequency at 100kHz,0.1V
2. Saturation current : DC current that will cause Lo to drop approximately 40%.
3. Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.
4. All test data is referenced to 25℃ ambient.
5. Operating Temperature Range -40℃ to +125℃
6. Packing：Carrier type，Quantity：500cs/Reel

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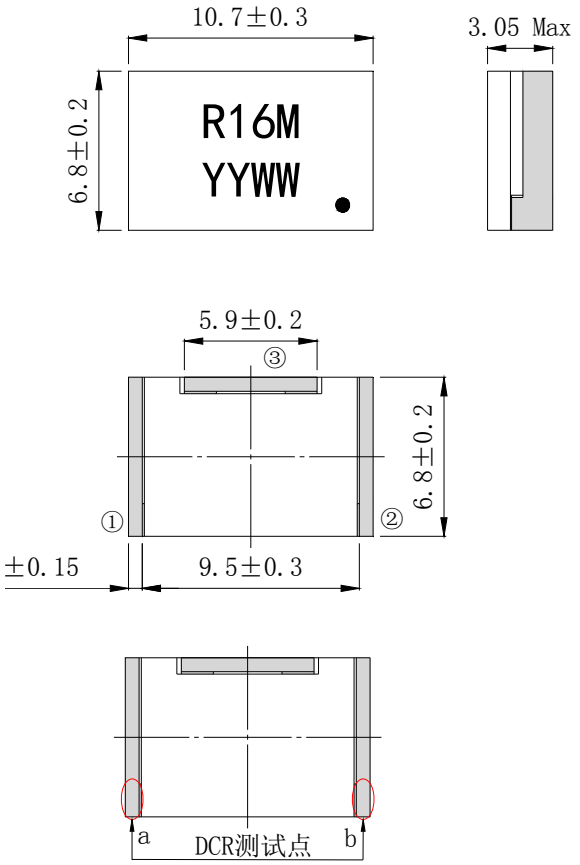
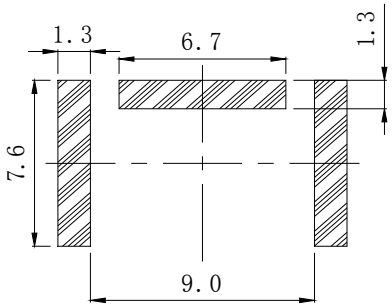
UI High Current Type
HGPB1030 Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	Inductance L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)	Temperature rise current (A)
			25℃	
HGPB1030-R16M	160±20%	0.47±10%	50	30

1. Measuring frequency at 100kHz,1V
2. Saturation current : DC current that will cause Lo to drop approximately 35%.
3. Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.
4. All test data is referenced to 25℃ ambient.
5. Operating Temperature Range -40℃ to +125℃
6. Packing：Carrier type，Quantity： 1200pcs/Reel

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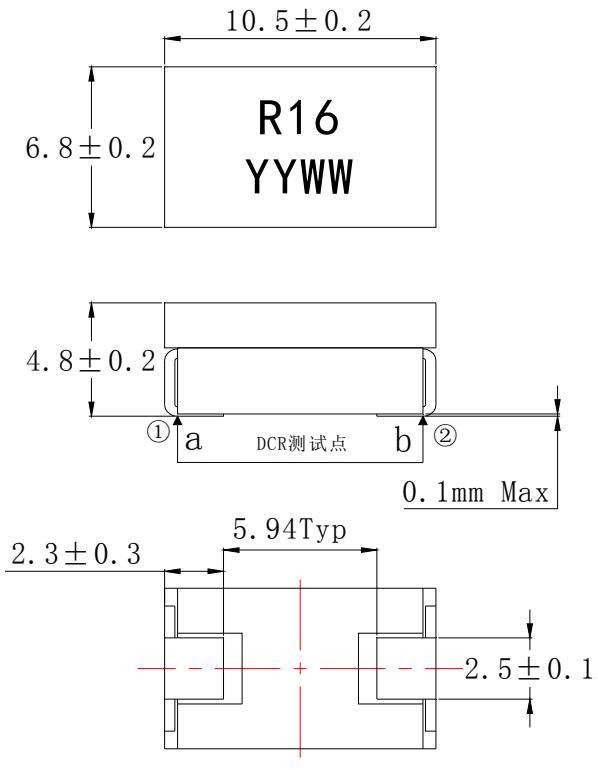
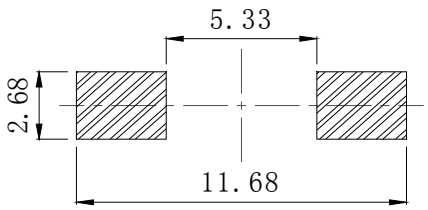
UI High Current Type
HGPB1005 Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	Inductance L(at 0A) (nH)	Inductance L(at 60A) (nH)		D.C.R. (mΩ)	Temperature rise current (A)
		25℃	125℃		
HGPB1005-R16M	160±15%	70 Min	70 Min	0.23±10%	40

1. Measuring frequency at 100kHz,1V
2. Saturation current : DC current that will cause Lo to drop approximately20%.
3. Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.
4. All test data is referenced to 25℃ ambient.
5. Operating Temperature Range -40℃ to +125℃
6. Packing：Carrier type，Quantity：800pcs/Reel

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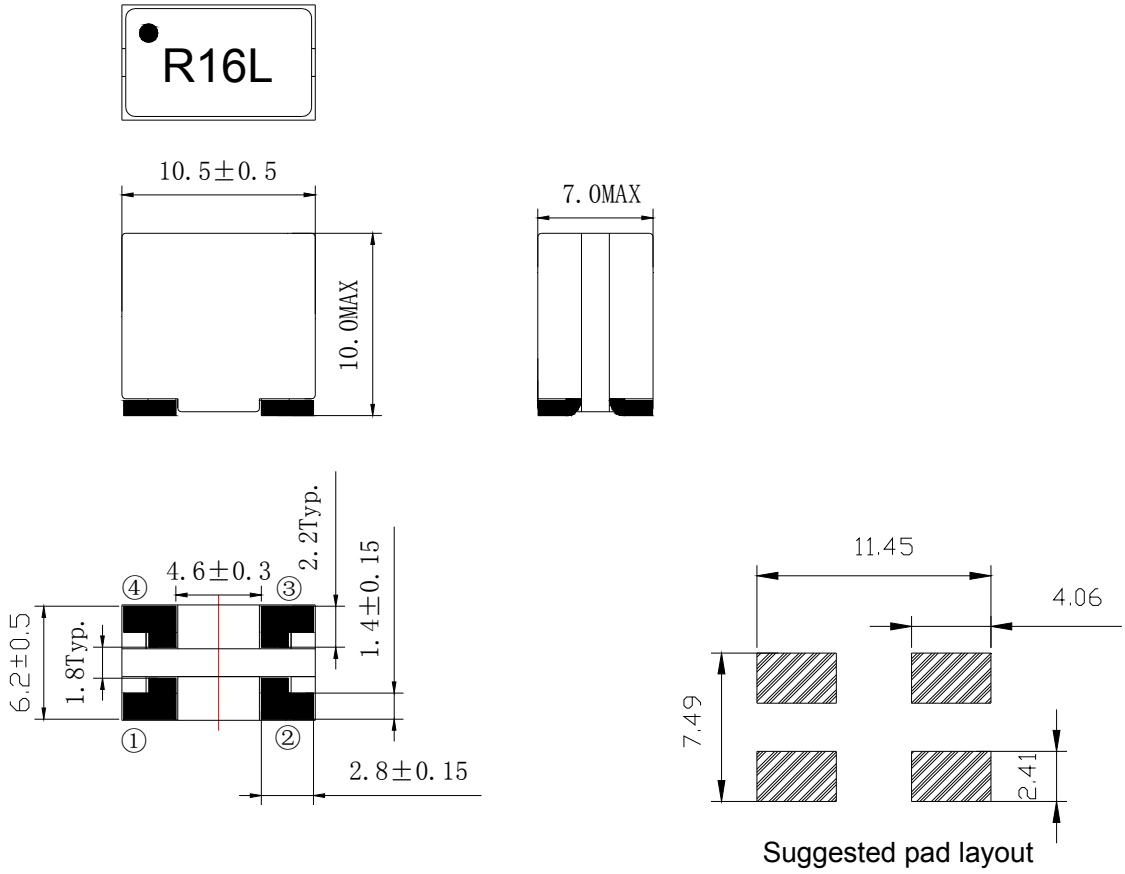
Highlight ®

RoHS

UI High Current Type
HGPB1065 Series

•Dimensions (mm)



Suggested pad layout

•Electrical Characteristics

Part No.	Inductance L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			20℃	100℃	
HGPB1065-R16L	160±15%	0.42 Max	75	60	80

1. Measuring frequency at 100kHz,1V
2. Saturation current : DC current that will cause Lo to drop approximately 25%.
3. Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.
4. All test data is referenced to 25℃ ambient.
5. Operating Temperature Range -40℃ to +125℃
6. Packing：Carrier type，Quantity：350pcs/Reel

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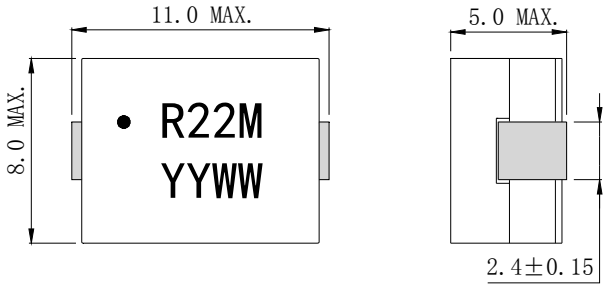
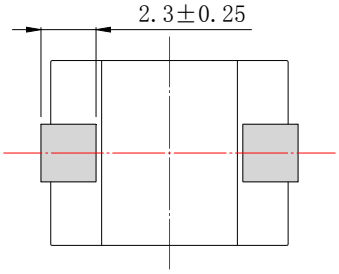
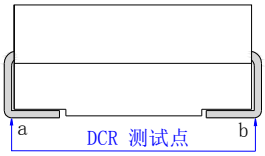
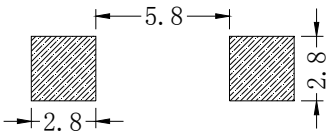
UI High Current Type
HGPB1005B Series

•Dimensions (mm)









Suggested pad layout

•Electrical Characteristics

Part No.	Inductance L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)	Temperature rise current (A)
			25℃	
HGPB1005B-R22MT	220±20%	0.4 Max	40	40

1. Measuring frequency at 100kHz,1V
2. Saturation current : DC current that will cause Lo to drop approximately 30%.
3. Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.
4. All test data is referenced to 25℃ ambient.
5. Operating Temperature Range -40℃ to +125℃
6. Packing：Carrier type，Quantity： 1000pcs/Reel

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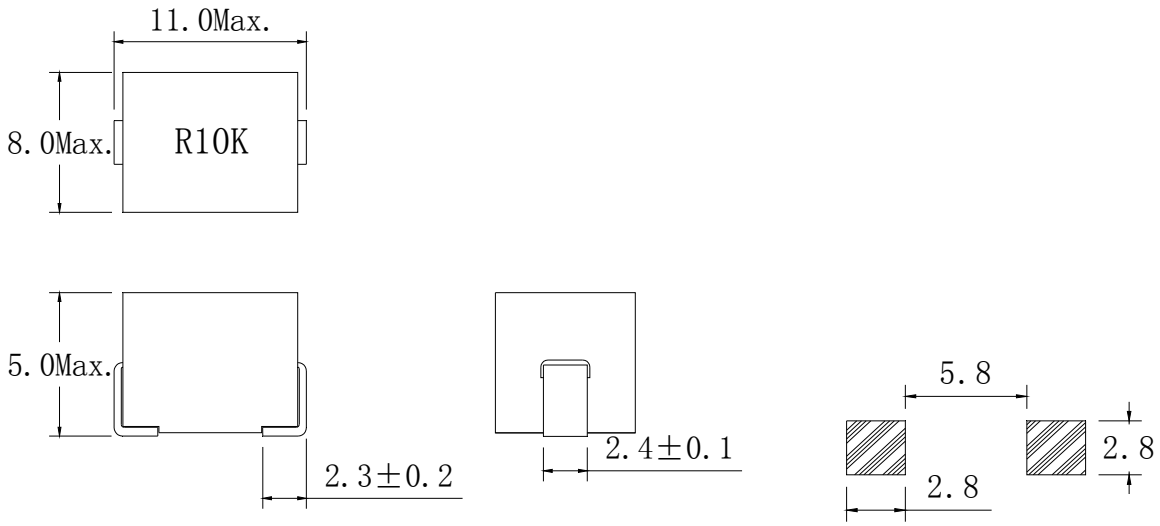
Highlight ®

RoHS

UI High Current Type
HGPB1105 Series

•Dimensions (mm)



Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			25℃	100℃	
HGPB1105-R10K	100±10%	0.35±10%	81	67	62
HGPB1105-R12K	120±10%	0.35±10%	66	52	62
HGPB1105-R15K	150±10%	0.35±10%	54	42	62
HGPB1105-R19K	190±10%	0.35±10%	45	35	62
HGPB1105-R22K	220±10%	0.35±10%	40	31	62

1. **Measuring frequency at 100kHz,0.1V**
2. **Saturation current : DC current that will cause Lo to drop approximately 20%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -40℃ to +125℃**
6. **Packing：Carrier type，Quantity：750pcs/Reel**

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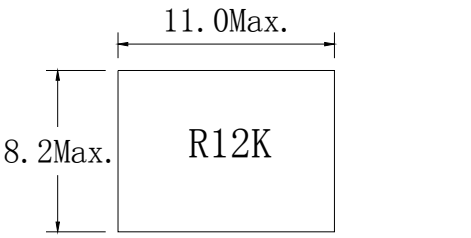
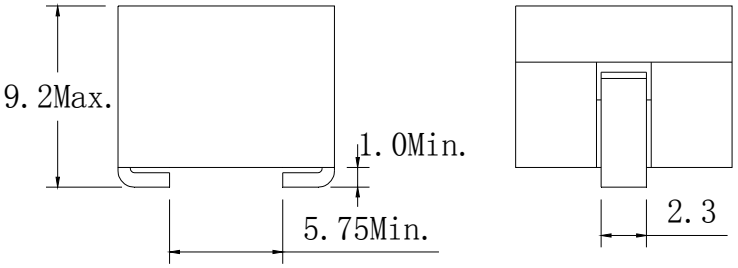
Highlight ®

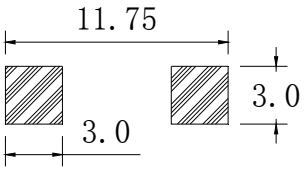
RoHS

UI High Current Type
HGPB1192 Series

•Dimensions (mm)







Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			25℃	100℃	
HGPB1192-R12K	120±10%	0.18±10%	94	84	70
HGPB1192-R15K	150±10%	0.18±10%	84	65	70
HGPB1192-R18K	180±10%	0.18±10%	72	58	70

1. **Measuring frequency at 100kHz,0.1V**
2. **Saturation current : DC current that will cause Lo to drop approximately 20%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -40℃ to +125℃**
6. **Packing：Carrier type，Quantity：450pcs/Reel**

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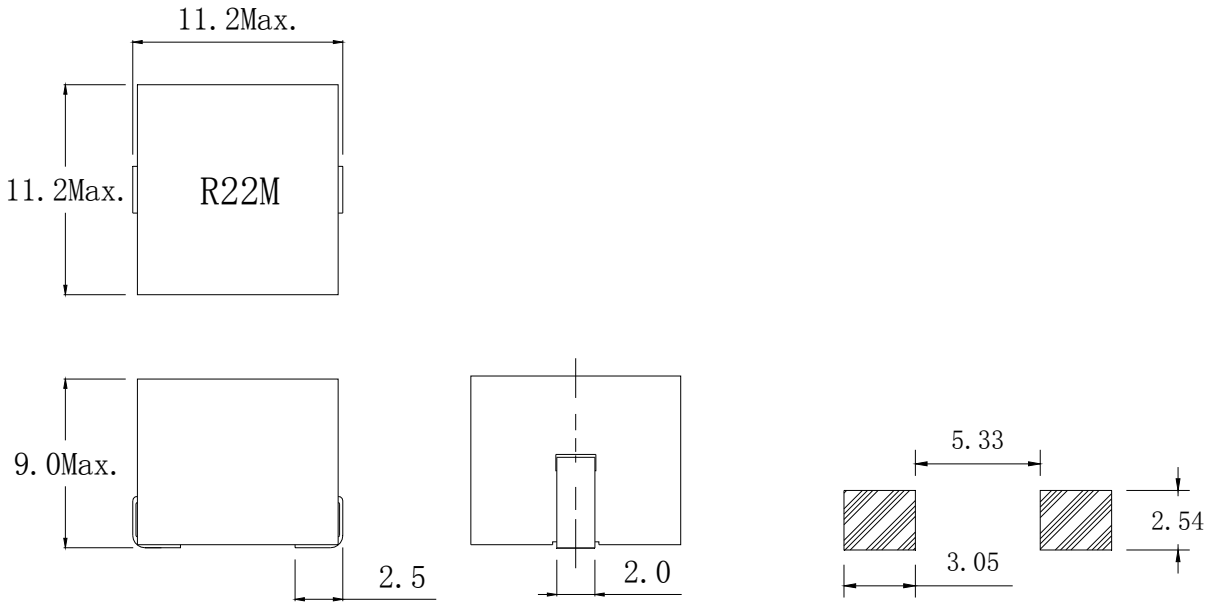
Highlight ®

RoHS

UI High Current Type
HGPB1109 Series

•Dimensions (mm)



Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			25℃	100℃	
HGPB1109-R22M	225±20%	0.63±10%	68	59	35
HGPB1109-R27M	270±20%	0.63±10%	50	44	35
HGPB1109-R32M	325±20%	0.63±10%	43	36	35
HGPB1109-R47M	470±20%	0.63±10%	30	23	35

1. **Measuring frequency at 100kHz,0.1V**
2. **Saturation current : DC current that will cause Lo to drop approximately 20%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -40℃ to +125℃**
6. **Packing：Carrier type，Quantity：250pcs/Reel**

Addr: No.11 bld,Tangtou 3th Industrial Zone,Shiyan town,Baoan District,,Shenzhen,CHINA.
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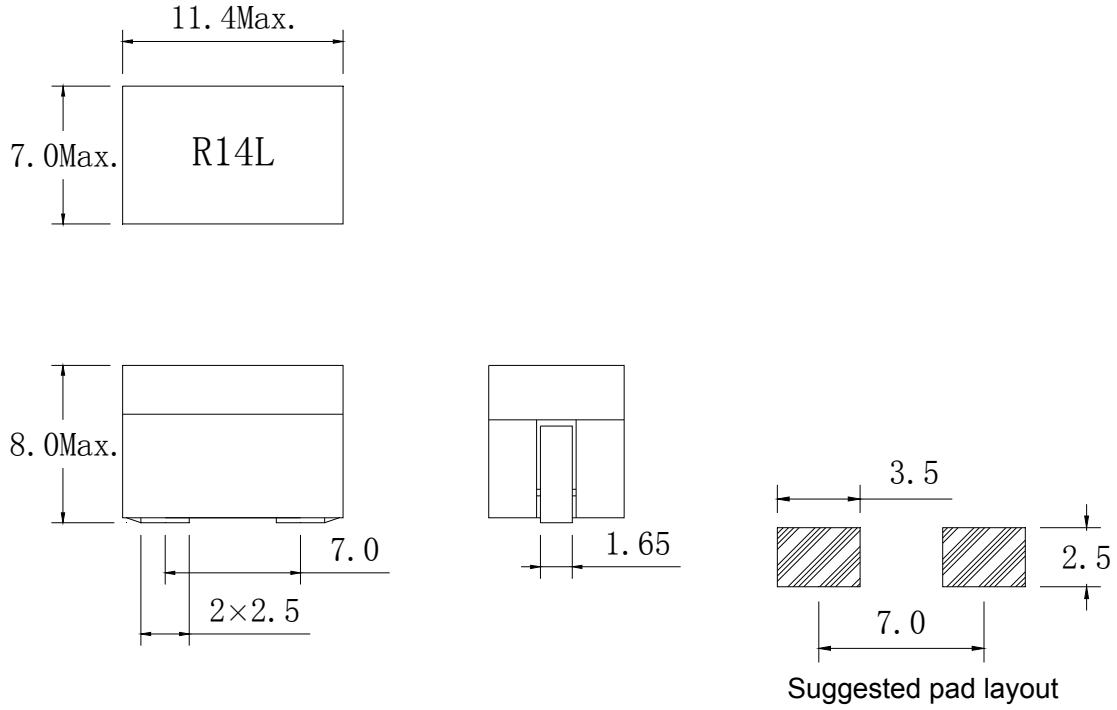
Highlight ®

RoHS

UI High Current Type
HGPB1108 Series

•Dimensions (mm)



Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			25℃	100℃	
HGPB1108-R14L	140±15%	0.29±10%	86	72	56
HGPB1108-R18L	180±15%	0.29±10%	65	54	56
HGPB1108-R24L	240±15%	0.29±10%	46	37	56
HGPB1108-R35L	350±15%	0.29±10%	29	25	56

1. **Measuring frequency at 100kHz,0.1V**
2. **Saturation current : DC current that will cause Lo to drop approximately 20%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -40℃ to +125℃**
6. **Packing：Carrier type，Quantity：500pcs/Reel**

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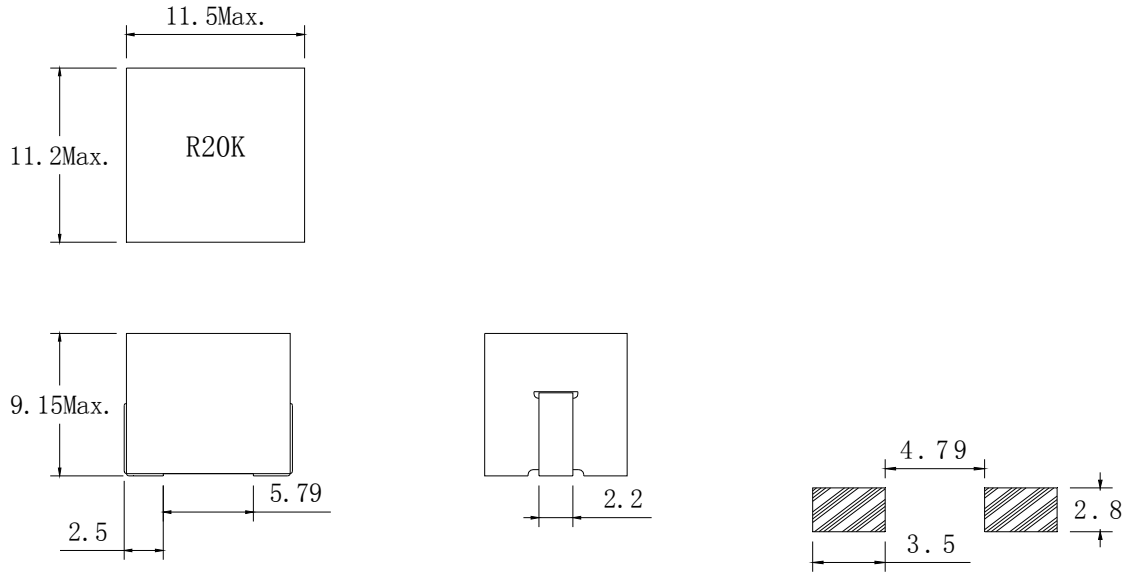
RoHS

UI High Current Type
HGPB1109A Series

•Dimensions (mm)



Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			25℃	100℃	
HGPB1109A-R20K	200±10%	0.42±10%	80	63	40
HGPB1109A-R23K	225±10%	0.42±10%	74	59	40
HGPB1109A-R27K	270±10%	0.42±10%	56	46	40
HGPB1109A-R33K	325±10%	0.42±10%	48	38.5	40
HGPB1109A-R47K	470±10%	0.42±10%	30	25.5	40

1. **Measuring frequency at 100kHz,0.1V**
2. **Saturation current : DC current that will cause Lo to drop approximately 20%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -40℃ to +125℃**
6. **Packing：Carrier type，Quantity：250pcs/Reel**

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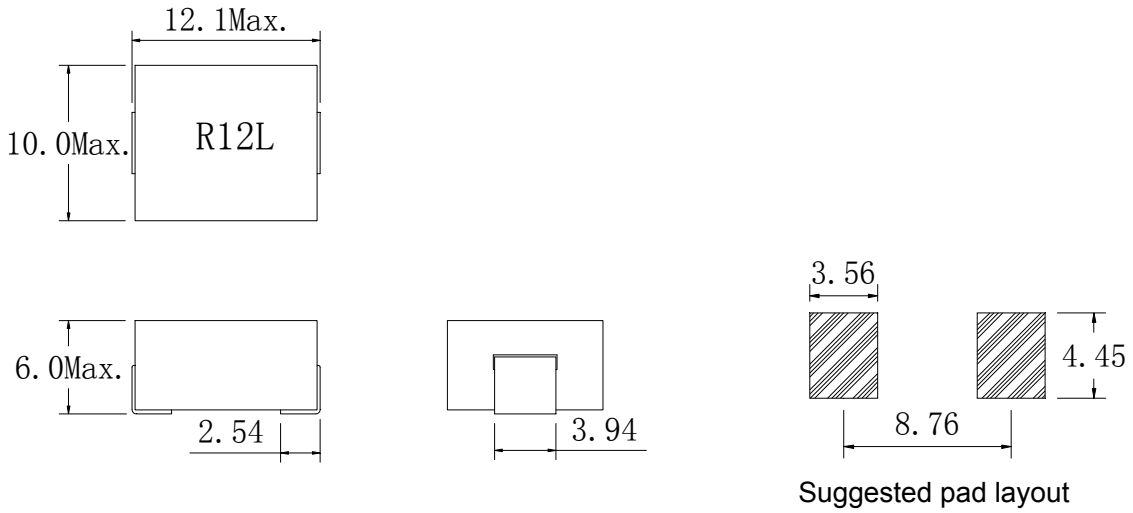
RoHS

UI High Current Type
HGPB1206 Series

•Dimensions (mm)



Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			25℃	125℃	
HGPB1206-R12L	120±15%	0.48±10%	84	75	36
HGPB1206-R18L	180±15%	0.48±10%	64	52	36
HGPB1206-R22L	215±15%	0.48±10%	53	47	36
HGPB1206-R23L	230±15%	0.48±10%	47	44	36
HGPB1206-R33L	325±15%	0.48±10%	34	31	36
HGPB1206-R37L	365±15%	0.48±10%	30	27	36

1. **Measuring frequency at 100kHz,0.1V**
2. **Saturation current : DC current that will cause Lo to drop approximately 30%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -40℃ to +130℃**
6. **Packing：Carrier type，Quantity：600pcs/Reel**

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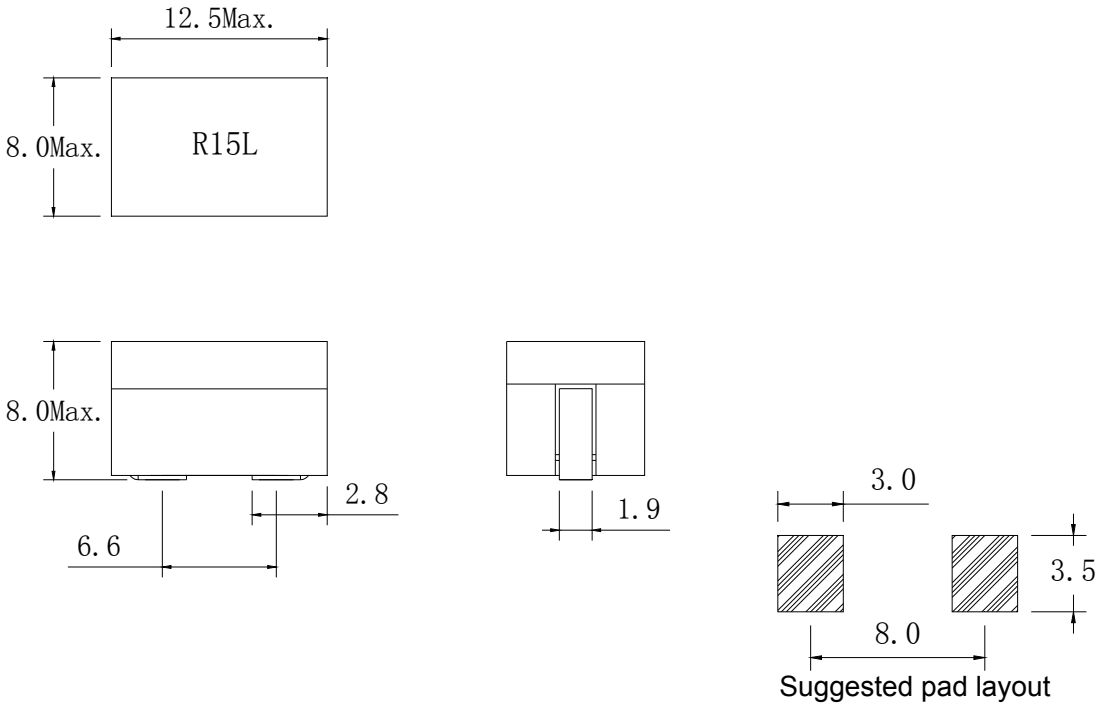
UI High Current Type
HGPB1208 Series

•Dimensions (mm)



•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			25℃	100℃	
HGPB1208-R15L	150±15%	0.29±10%	98	80	57
HGPB1208-R18L	180±15%	0.29±10%	84	70	57
HGPB1208-R20L	200±15%	0.29±10%	73	61	57
HGPB1208-R22L	220±15%	0.29±10%	63	55	57

1. Measuring frequency at 100kHz,0.1V
2. Saturation current : DC current that will cause Lo to drop approximately 20%.
3. Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.
4. All test data is referenced to 25℃ ambient.
5. Operating Temperature Range -40℃ to +125℃
6. Packing：Carrier type，Quantity：400pcs/Reel

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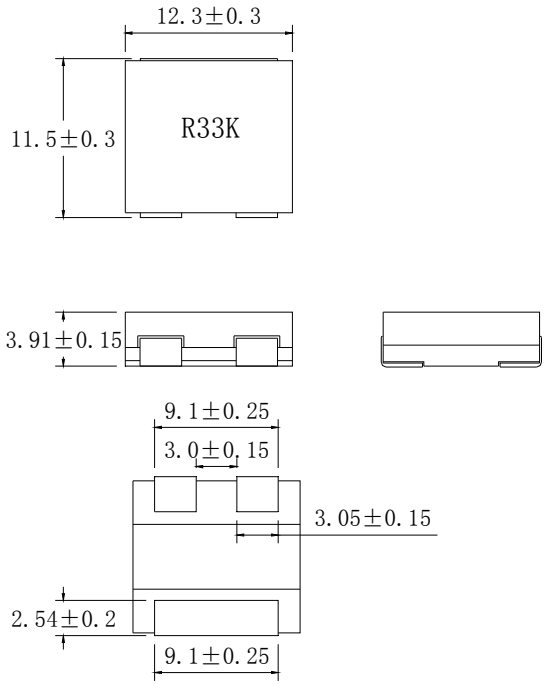
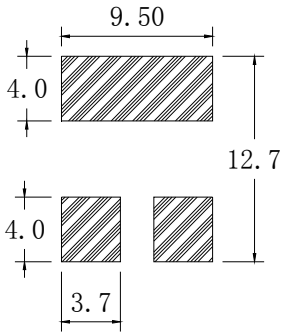
RoHS

UI High Current Type
HGPB1204 Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)	Temperature rise current (A)
			25℃	
HGPB1204-R33K	330±15%	0.45±10%	40	38

1. Measuring frequency at 500kHz,1V
2. Saturation current : DC current that will cause Lo to drop approximately 30%.
3. Temperature rise current : DC current that will cause coil's temperature rise approximate △T=50℃.
4. All test data is referenced to 25℃ ambient.
5. Operating Temperature Range -40℃ to +130℃
6. Packing：Carrier type，Quantity：900pcs/Reel

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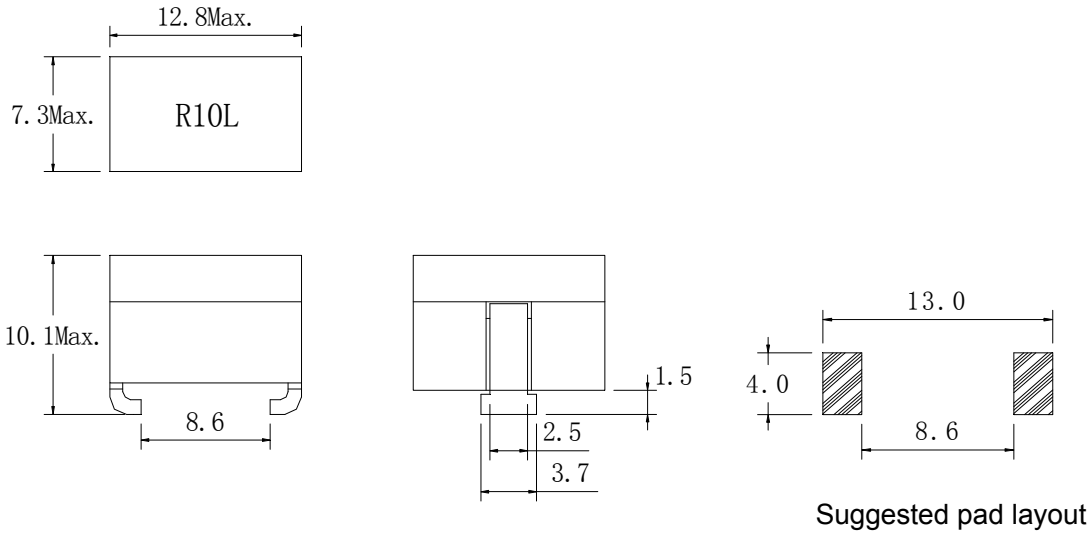
RoHS

UI High Current Type
HGPB1210 Series

•Dimensions (mm)



Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)			Temperature rise current (A)
			25℃	100℃	125℃	
HGPB1210-R10L	100	0.17±15%	100	100	83	70
HGPB1210-R12L	120	0.17±15%	94	75	75	70
HGPB1210-R15L	150	0.17±15%	80	68	61	70
HGPB1210-R30L	300	0.17±15%	43	36	32	70

1. **Measuring frequency at 100kHz,0.1v**
2. **Saturation current : DC current that will cause Lo to drop approximately 20%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -40℃ to +125℃**
6. **Packing：Carrier type，Quantity：300pcs/Reel**

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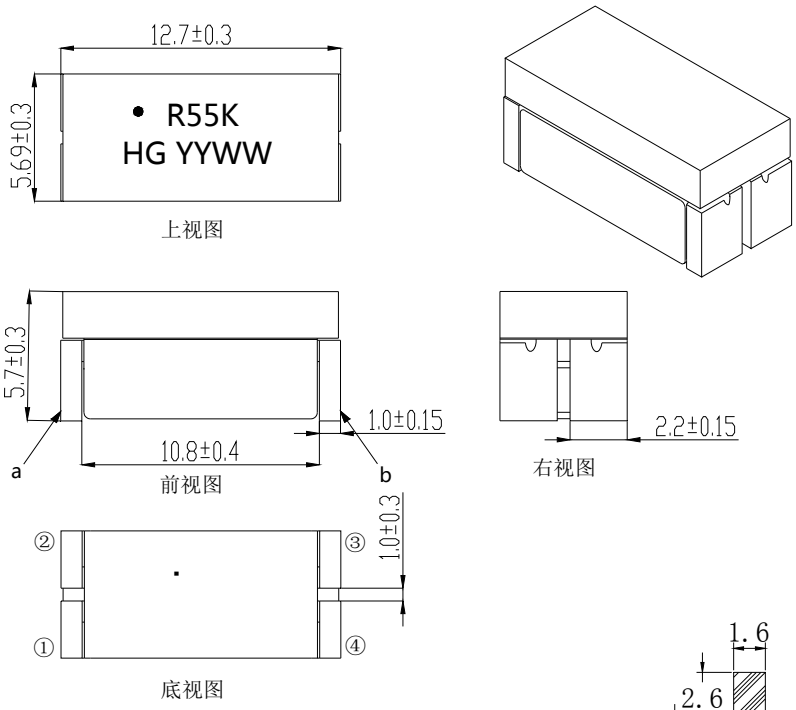
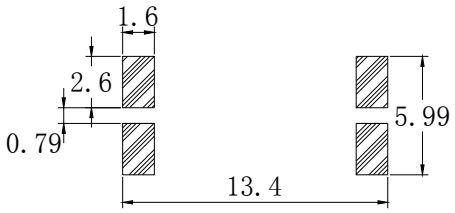
UI High Current Type
HGPB1306 Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	Inductance L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)	Temperature rise current (A)
			25℃	
HGPB1306H-R55K	550±12%	0.4 Max	35	26

1. Measuring frequency at 100kHz,1V
2. Saturation current : DC current that will cause Lo to drop approximately 30%.
3. Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.
4. All test data is referenced to 25℃ ambient.
5. Operating Temperature Range -40℃ to +125℃
6. Packing：Carrier type，Quantity：800pcs/Reel

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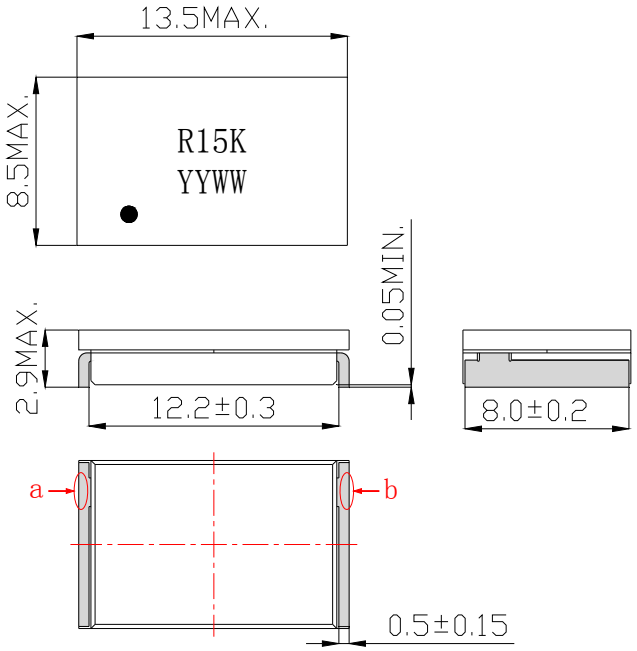
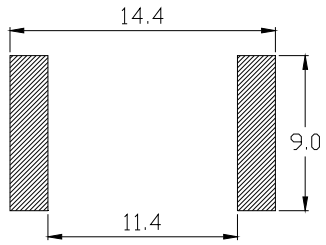
RoHS

UI High Current Type
HGPB1328 Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)			Temperature rise current (A)
			25℃	85℃	115℃	
HGPB1328-R15K	145±10%	0.5 Max	50	45	42	30

1. Measuring frequency at 100kHz,1V
2. Saturation current : DC current that will cause Lo to drop approximately 25%.
3. Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.
4. All test data is referenced to 25℃ ambient.
5. Operating Temperature Range -40℃ to +125℃
6. Packing：Carrier type，Quantity：1200pcs/Reel

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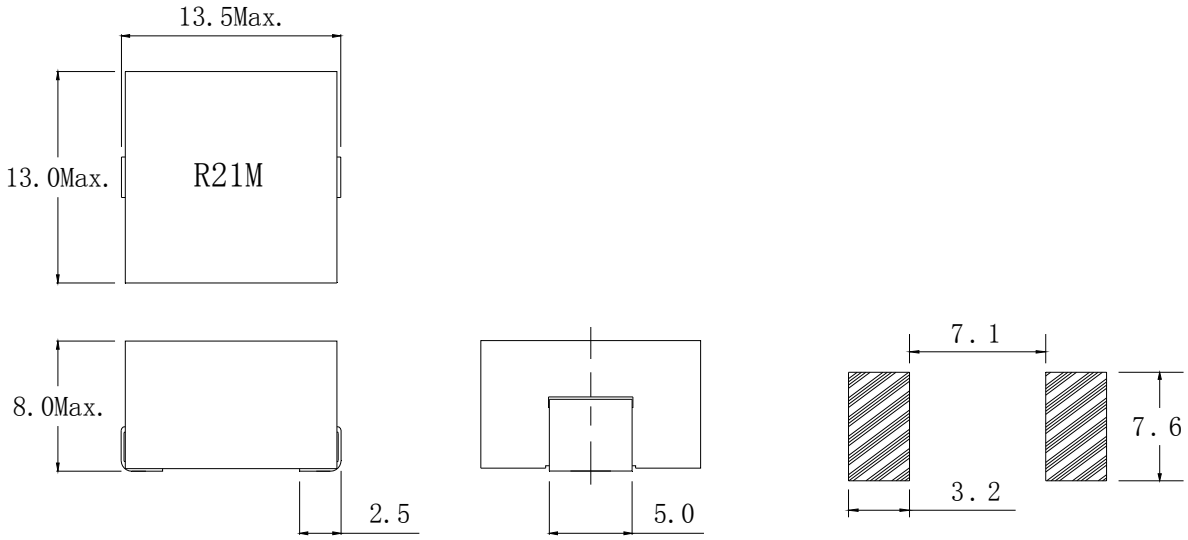
RoHS

UI High Current Type
HGPB1380 Series

•Dimensions (mm)



Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			25℃	100℃	
HGPB1380-R21M	210±20%	0.32±10%	71	64	45
HGPB1380-R26M	260±20%	0.32±10%	60	55	45
HGPB1380-R32M	320±20%	0.32±10%	50	45	45
HGPB1380-R44M	440±20%	0.32±10%	35	30	45
HGPB1380A-R21M	210±20%	0.53±11.3%	71	64	45
HGPB1380A-R26M	260±20%	0.53±11.3%	60	55	45
HGPB1380A-R32M	320±20%	0.53±11.3%	50	45	45
HGPB1380A-R44M	440±20%	0.53±11.3%	35	30	45

1. **Measuring frequency at 100kHz,0.1v**
2. **Saturation current : DC current that will cause Lo to drop approximately 20%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -40℃ to +125℃**
6. **Packing：Carrier type，Quantity：400pcs/Reel**

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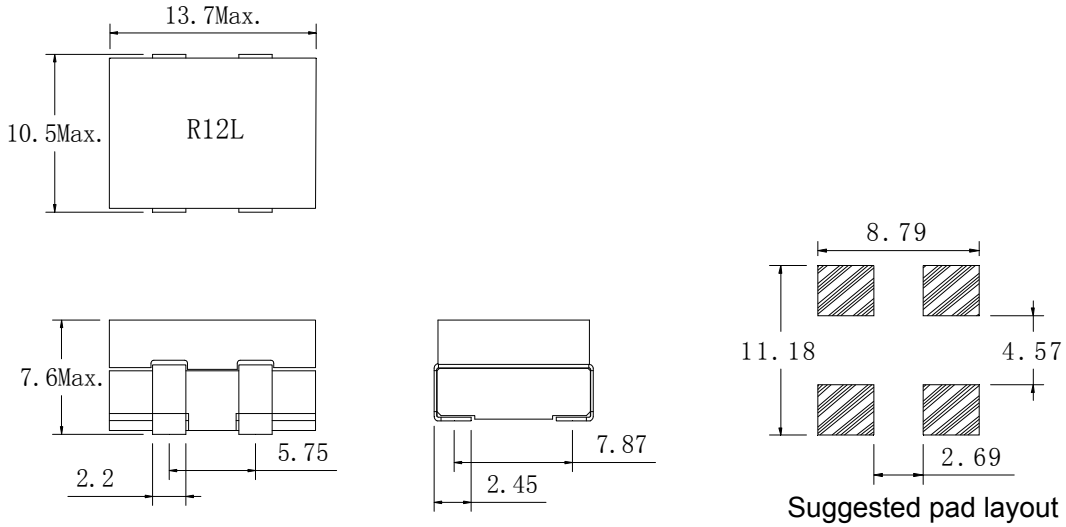
RoHS

UI High Current Type
HGPB1307 Series

•Dimensions (mm)



Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			25℃	100℃	
HGPB1307-R12L	115±15%	0.29±10%	94	78	30
HGPB1307-R15L	150±15%	0.29±10%	72	60	30
HGPB1307-R18L	175±15%	0.29±10%	62	52	30
HGPB1307-R22L	215±15%	0.29±10%	48	43	30
HGPB1307-R23L	230±15%	0.29±10%	43	39	30
HGPB1307-R27L	270±15%	0.29±10%	37	33	30
HGPB1307-R30L	300±15%	0.29±10%	32	28	30

1. **Measuring frequency at 100kHz,0.1v**
2. **Saturation current : DC current that will cause Lo to drop approximately 20%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -40℃ to +125℃**
6. **Packing：Carrier type，Quantity：400pcs/Reel**

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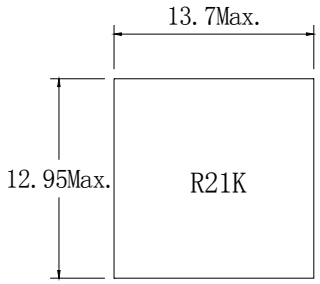
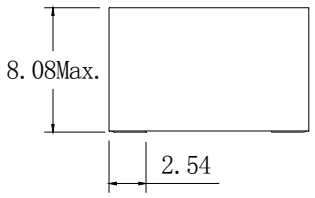
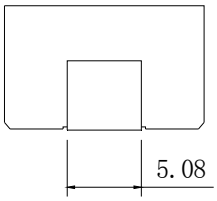
RoHS

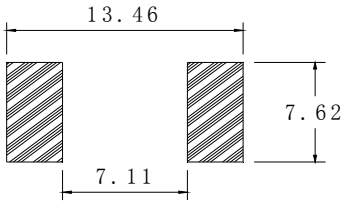
UI High Current Type
HGPB1308 Series

•Dimensions (mm)









Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			25℃	100℃	
HGPB1308-R21K	210±10%	0.22±10%	85	71	72
HGPB1308-R26K	260±10%	0.22±10%	67	56	72
HGPB1308-R32K	320±10%	0.22±10%	56	45	72
HGPB1308-R44K	440±10%	0.22±10%	38	30	72

1. **Measuring frequency at 100kHz,0.1V**
2. **Saturation current : DC current that will cause Lo to drop approximately 20%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -40℃ to +125℃**
6. **Packing：Carrier type，Quantity：400pcs/Reel**

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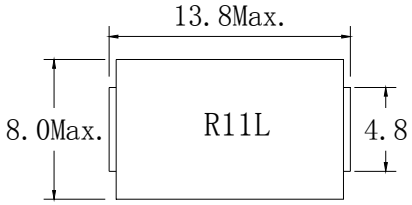
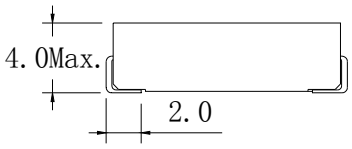
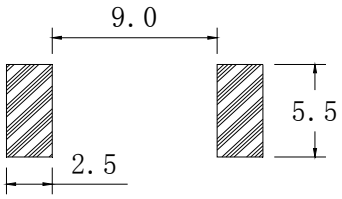
UI High Current Type
HGPB1304 Series

•Dimensions (mm)







Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			25℃	100℃	
HGPB1304-R11L	110±15%	0.23±10%	60	49	50
HGPB1304-R12L	120±15%	0.23±10%	53	46	50
HGPB1304-R14L	140±15%	0.23±10%	45	38	50
HGPB1304-R16L	160±15%	0.23±10%	40	34	50
HGPB1304-R18L	180±15%	0.23±10%	34	29	50
HGPB1304-R21L	210±15%	0.23±10%	30	25	50
HGPB1304-R24L	235±15%	0.23±10%	26	22.5	50

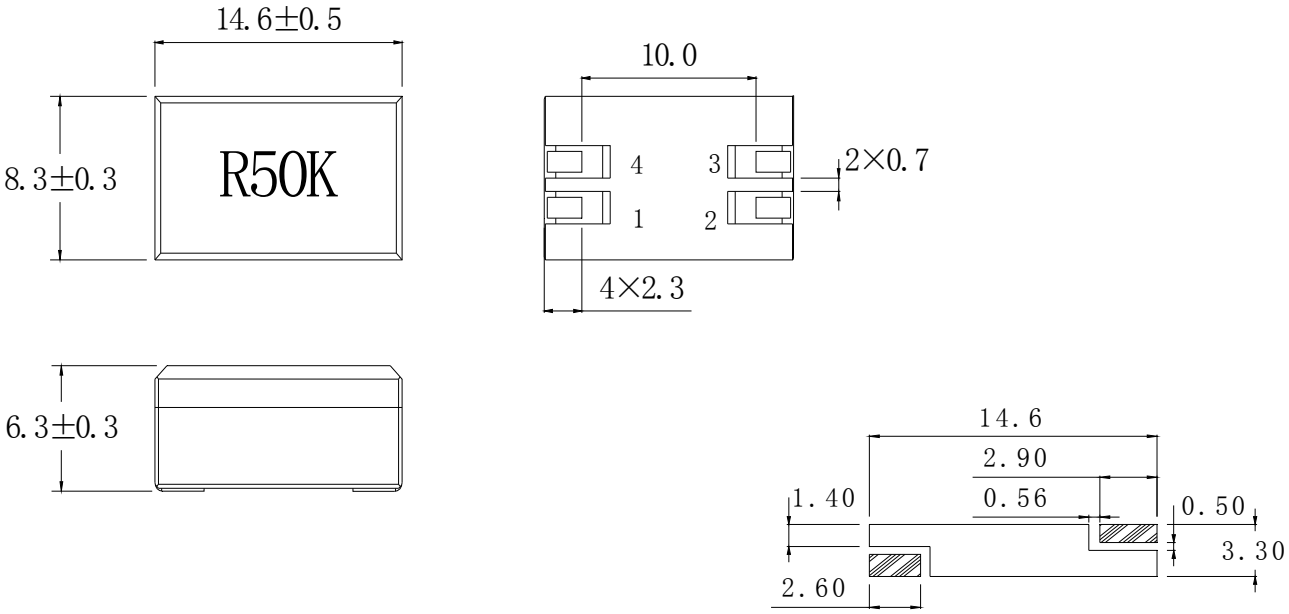
1. **Measuring frequency at 100kHz,0.1V**
2. **Saturation current : DC current that will cause Lo to drop approximately 20%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -40℃ to +125℃**
6. **Packing：Carrier type，Quantity：1250pcs/Reel**

Highlight ®

RoHS

UI High Current Type
HGPB1465 Series

•Dimensions (mm)



Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			25℃	100℃	
HGPB1465-R50K	500±10%	1.15±15%	60	51	40

1. Measuring frequency at 100kHz,0.1V
2. Saturation current : DC current that will cause Lo to drop approximately 20%.
3. Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.
4. All test data is referenced to 25℃ ambient.
5. Operating Temperature Range -40℃ to +125℃
6. Packing：Carrier type，Quantity：500pcs/Reel

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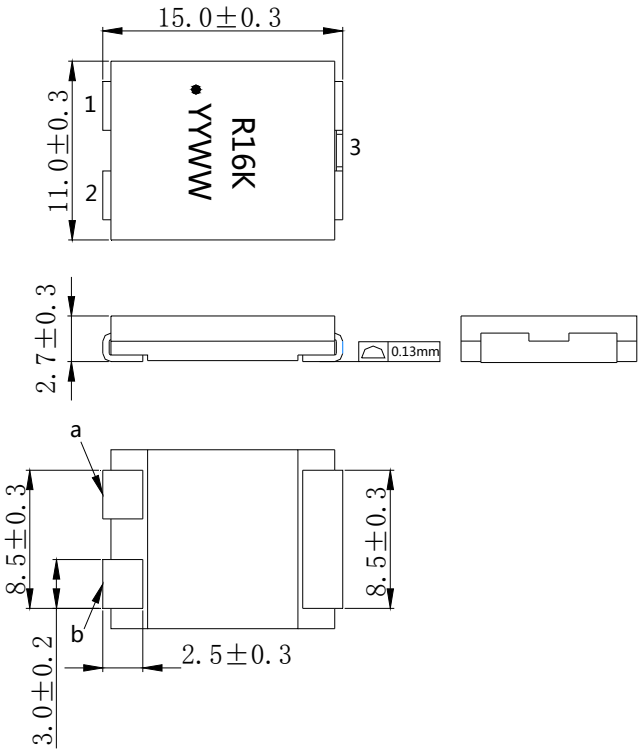
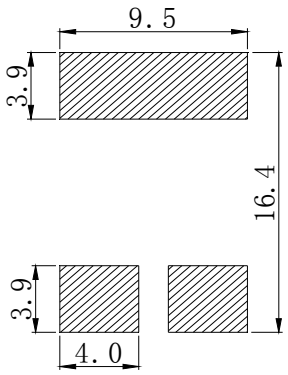
Highlight ®

RoHS

UI High Current Type
HGPB1530 Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	Inductance L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			20℃	100℃	
HGPB1530-R16K	165±12%	0.66 Max	55	45	28.5

1. Measuring frequency at 1MHz,1V
2. Saturation current : DC current that will cause Lo to drop approximately 20%.
3. Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.
4. All test data is referenced to 25℃ ambient.
5. Operating Temperature Range -40℃ to +125℃
6. Packing：Carrier type，Quantity：1000pcs/Reel

Addr: No.11 bld,Tangtou 3th Industrial Zone,Shiyan town,Baoan District,,Shenzhen,CHINA.
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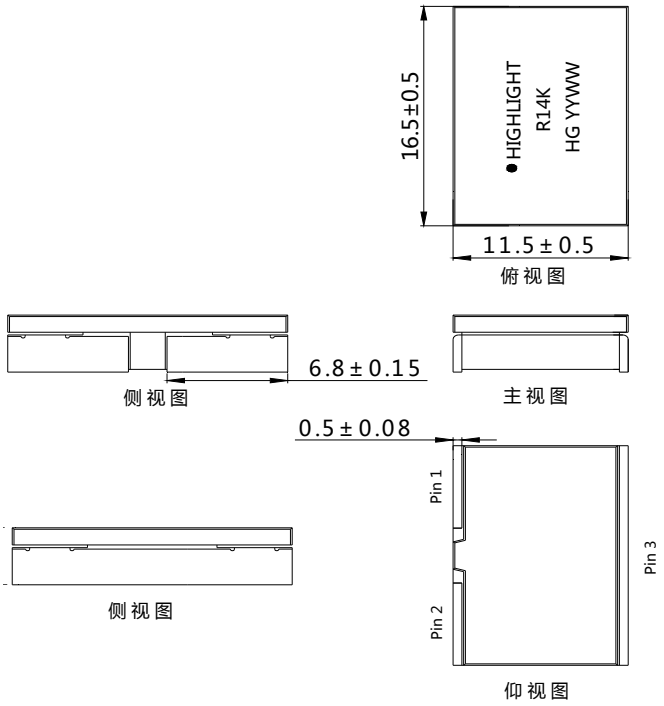
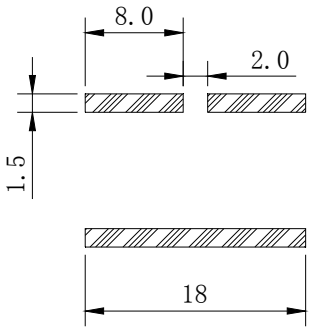
Highlight

RoHS

UI High Current Type
HGPB1635 Series

•Dimensions (mm)





Suggested pad layout

•Electrical Characteristics

Part No.	Inductance L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)	Temperature rise current (A)
			25℃	
HGPB1635-R14K	145±10%	0.5 Max	50	60

1. Measuring frequency at 100kHz,0.1V
2. Saturation current : DC current that will cause Lo to drop approximately 25%.
3. Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.
4. All test data is referenced to 25℃ ambient.
5. Operating Temperature Range -40℃ to +125℃
6. Packing：Carrier type，Quantity：600pcs/Reel

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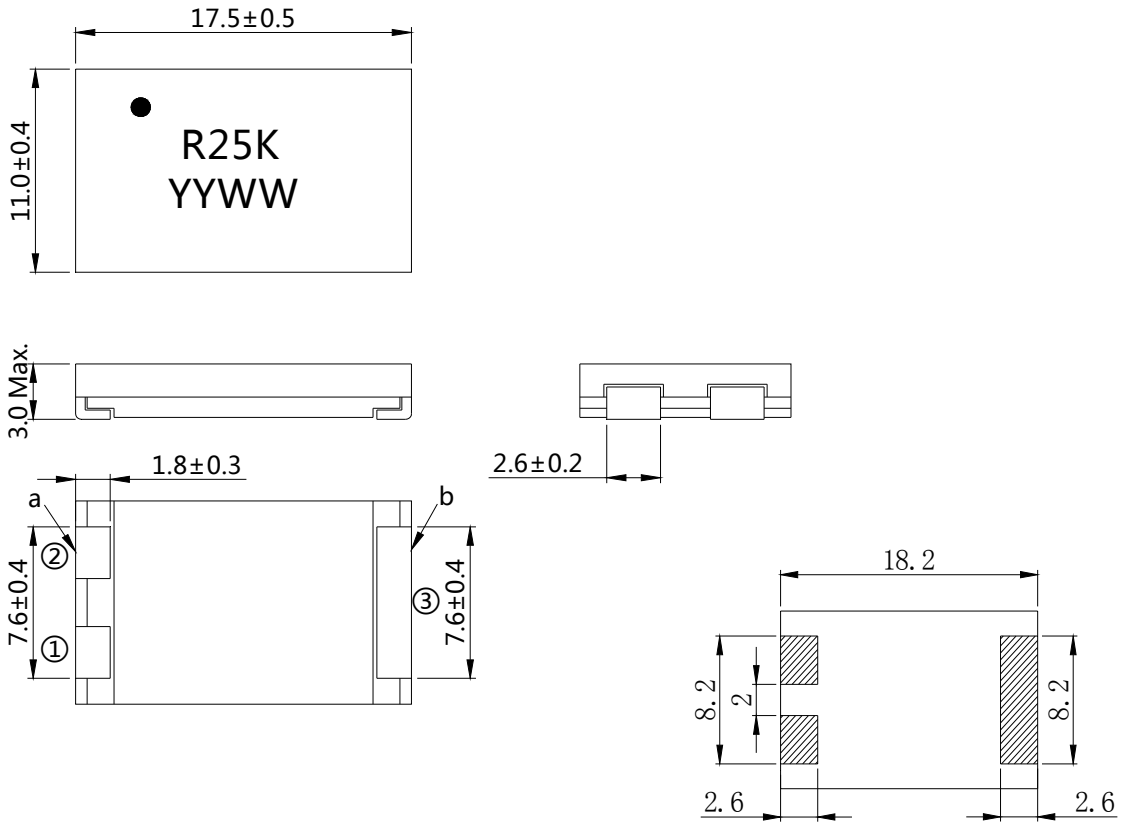
Highlight ®

RoHS

UI High Current Type
HGPB1730 Series

•Dimensions (mm)



Suggested pad layout

•Electrical Characteristics

Part No.	Inductance L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			25℃	100℃	
HGPB1730-R25K	250±15%	0.9 Max	30	24	25

1. Measuring frequency at 100kHz,0.1v
2. Saturation current : DC current that will cause Lo to drop approximately 20%.
3. Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.
4. All test data is referenced to 25℃ ambient.
5. Operating Temperature Range -40℃ to +125℃
6. Packing：Carrier type，Quantity：1000pcs/Reel

Addr: No.11 bld,Tangtou 3th Industrial Zone,Shiyan town,Baoan District,,Shenzhen,CHINA.
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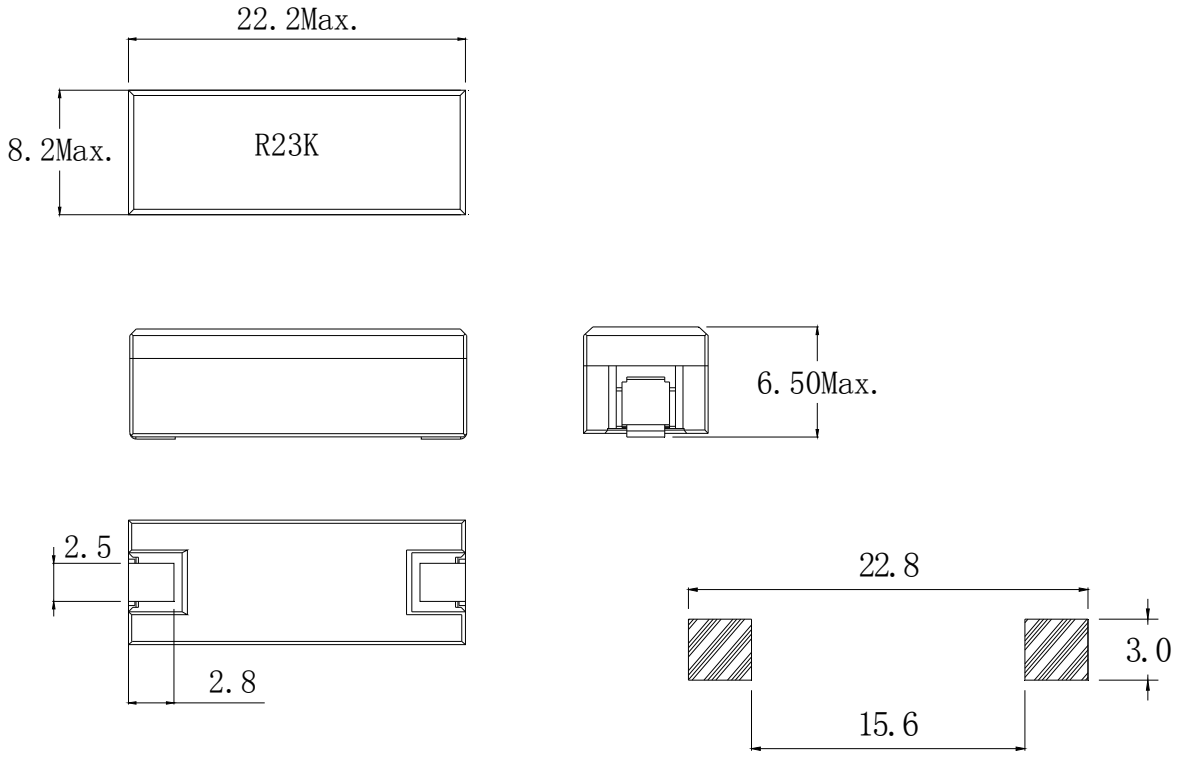
Highlight ®

RoHS

UI High Current Type
HGPB2265Series

•Dimensions (mm)



Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			25℃	100℃	
HGPB2265-R23K	230±10%	0.47±10%	90	75	46

1. **Measuring frequency at 100kHz,0.1V**
2. **Saturation current : DC current that will cause Lo to drop approximately 20%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -40℃ to +125℃**
6. **Packing：Carrier type，Quantity：500pcs/Reel**

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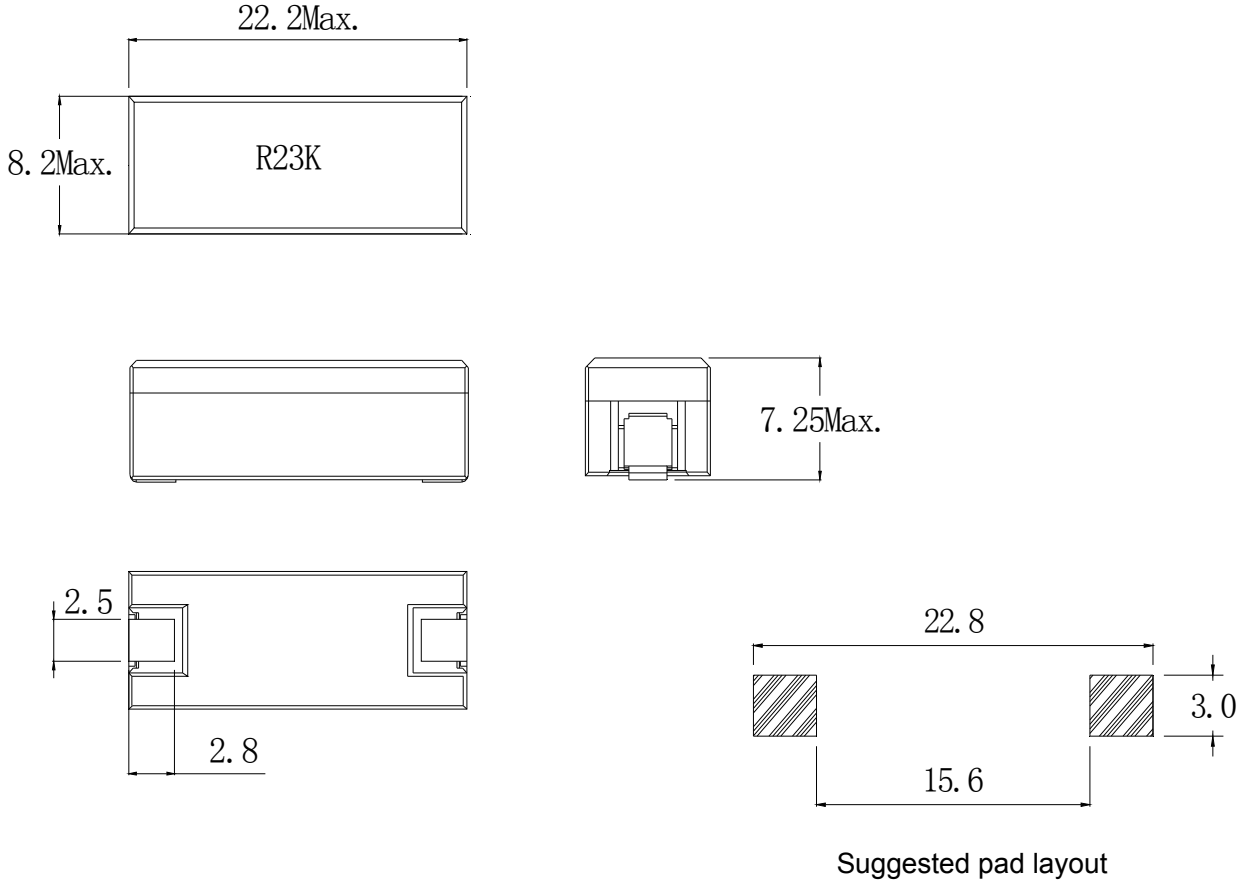
Highlight ®

RoHS

UI High Current Type
HGPB2207Series

•Dimensions (mm)



Suggested pad layout

•Electrical Characteristics

Part No.	INDUCTANCE L(at 0A) (nH)	D.C.R. (mΩ)	Saturation current(A)		Temperature rise current (A)
			25℃	100℃	
HGPB2207-R23K	230±10%	0.47±10%	100	86	46

7. Measuring frequency at 100kHz,0.1V
8. Saturation current : DC current that will cause Lo to drop approximately 20%.
9. Temperature rise current : DC current that will cause coil's temperature rise approximate △T= 40℃.
10. All test data is referenced to 25℃ ambient.
11. Operating Temperature Range -40℃ to +125℃
12. Packing：Carrier type，Quantity：500pcs/Reel

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Highlight ®

RoHS

SMD Molded Iron Power Inductor
HGOP Series

●Features

☞Integral forming structure
☞High saturation current characteristic
☞Ultra low buzz noise, Low DCR type
☞Operational temperature :-55℃ ~125℃(including coil's self temperature rise)
☞RoHS compliance

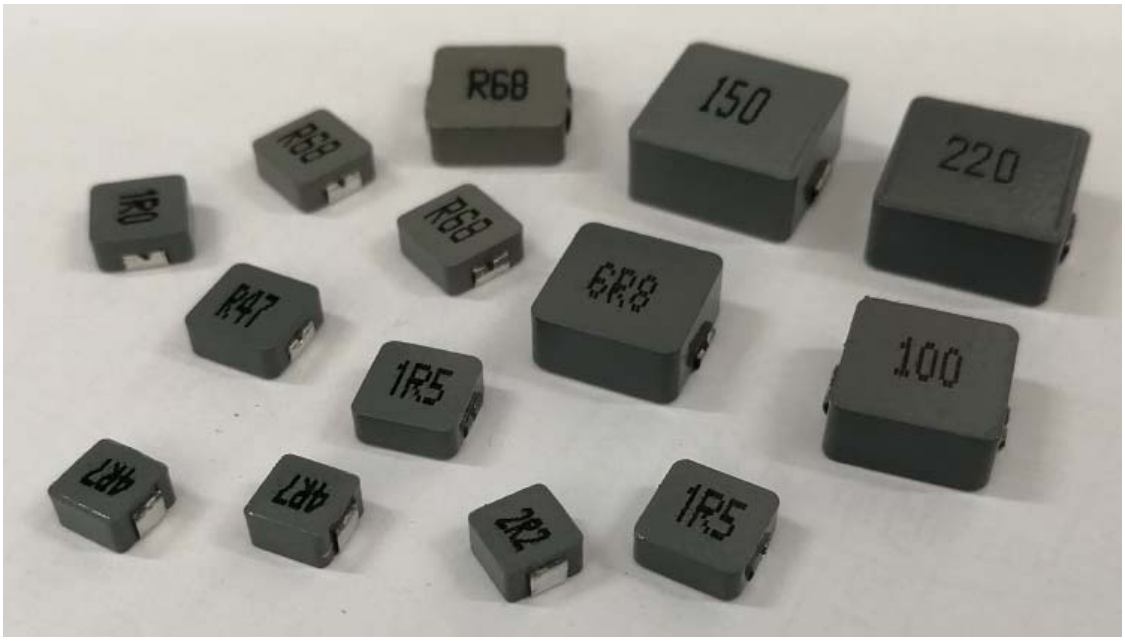
●Applications

☞Low voltage-high current laptop PC & Server power supply
☞High current converters
☞CPU powered devices

●Part Name Instruction

HGOP 0415 -2R2M
① ② ③ ④

①Type Name
②Product Size:0415=4.9mm×4.5mm×1.5mmMax.
③Inductance Value:2R2=2.2μH
④Tolerance Code: M=±20%,N=±30%



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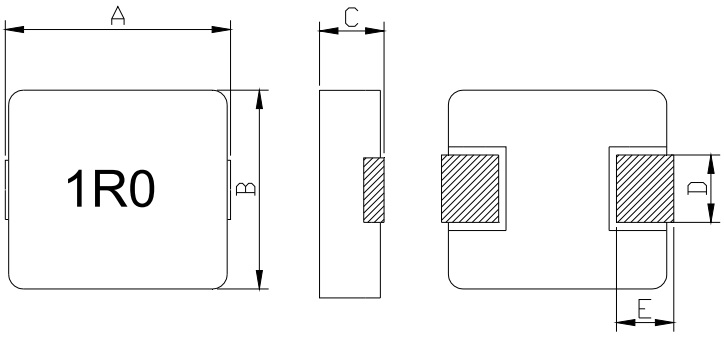
HGOP Series

●Dimensions (mm)



Part Number	A	B	C	D	E
HGOP0302C	3.5±0.3	3.1±0.3	2.0 Max	1.3 Ref	0.8±0.3
HGOP0402C	4.5±0.3	4.2±0.3	2.0 Max	1.5 Ref	1.2±0.3
HGOP0502A	5.6±0.3	5.2±0.3	2.0 Max	2.3 Ref	1.2±0.3
HGOP0503C	5.6±0.3	5.2±0.3	3.0 Max	2.3 Ref	1.2±0.3
HGOP0603A	7.0±0.3	6.6±0.3	3.0 Max	3.0 Ref	1.55±0.3
HGOP0603C	7.3±0.3	6.8±0.3	3.0 Max	3.0 Ref	1.55±0.3
HGOP0605C	7.3±0.3	6.8±0.3	5.0 Max	3.0 Ref	1.55±0.3
HGOP1004C	11.4 Max	10.2±0.3	4.0 Max	3.0 Ref	2.5±0.5
HGOP1005C	11.4 Max	10.2±0.3	5.0 Max	3.0 Ref	2.5±0.5
HGOP1365C	13.8 Max	12.6±0.3	6.5 Max	3.2 Ref	2.5±0.5

HGOP Series

•Electrical Characteristics

HGOP0302 Series

Part Number	L(μH)	DCR(mΩ)		Isat（A）	Irms(A)
	±20%	TYP	MAX	TYP	TYP
HGOP0302C-R47M	0.47	16.0	24.0	10.0	6.0
HGOP0302C-R68M	0.68	26.0	32.0	7.0	5.0
HGOP0302C-1R0M	1.00	30.0	36.0	5.0	3.8
HGOP0302C-2R2M	2.2	68.0	78.0	3.7	3.0
HGOP0302C-3R3M	3.3	115.0	140.0	3.5	2.5
HGOP0302C-4R7M	4.7	170.0	190.0	3.0	1.8

HGOP0402C Series

Part Number	L(μH)	DCR(mΩ)		Isat（A）	Irms(A)
	±20%	TYP	MAX	TYP	TYP
HGOP0402C-R22M	0.22	6.0	8.0	17.0	9.5
HGOP0402C-R33M	0.33	7.0	9.0	16.0	8.5
HGOP0402C-R47M	0.47	11.0	14.0	14.0	7.0
HGOP0402C-R56M	0.56	12.0	16.0	12.0	7.0
HGOP0402C-R68M	0.68	18.0	22.0	9.0	6.0
HGOP0402C-1R0M	1.0	23.0	29.0	7.0	5.0
HGOP0402C-1R2M	1.2	24.0	30.0	6.5	4.5
HGOP0402C-1R5M	1.5	38.0	46.0	6.0	4.0
HGOP0402C-2R2M	2.2	53.0	60.0	5.5	3.6
HGOP0402C-3R3M	3.3	80.0	96.0	4.0	3.0
HGOP0402C-4R7M	4.7	96.0	104.0	3.5	2.4
HGOP0402C-6R8M	6.8	156.0	168.0	2.8	2.0
HGOP0402C-100M	10.0	182.0	240.0	2.5	1.5
HGOP0402C-150M	15.0	240.0	280.0	2.0	1.2

HGOP0502A Series

Part Number	L(μH)	DCR(mΩ)		Isat（A）	Irms(A)
	±20%	TYP	MAX	TYP	TYP
HGOP0502A-R22M	0.22	4.3	5.2	21.0	13.0
HGOP0502A-R68M	0.68	16.0	22.0	12.0	10.0
HGOP0502A-1R0M	1.00	20.0	25.0	9.5	6.5
HGOP0502A-1R5M	1.5	23.0	28.0	8.0	5.0
HGOP0502A-2R2M	2.2	34.0	38.0	7.0	4.5
HGOP0502A-3R3M	3.3	53.0	60.0	5.5	3.5
HGOP0502A-4R7M	4.7	84.0	95.0	4.2	3.0
HGOP0502A-100M	10.0	180.0	196.0	3.0	2.0

HGOP0503C Series

Part Number	L(μH)	DCR(mΩ)		Isat（A）	Irms(A)
	±20%	TYP	MAX	TYP	TYP
HGOP0503C-R22M	0.22	4.2	5.2	22.0	14.0
HGOP0503C-R68M	0.68	10.0	13.0	14.0	8.5
HGOP0503C-1R0M	1.0	14.0	18.0	11.0	7.0
HGOP0503C-2R2M	2.2	28.0	35.0	9.0	5.5
HGOP0503C-3R3M	3.3	40.0	45.0	8.0	4.8
HGOP0503C-4R7M	4.7	48.0	55.0	6.0	4.5
HGOP0503C-5R6M	5.6	58.0	68.0	4.5	4.00
HGOP0503C-6R8M	6.8	68.0	78.0	4.3	3.3
HGOP0503C-100M	10.0	100.0	120.0	3.5	2.7
HGOP0503C-150M	15.0	160.0	200.0	3.0	2.0
HGOP0503C-220M	22.0	240.0	255.0	2.2	1.5
HGOP0503C-330M	33.0	325.0	350.0	1.8	1.2

HGOP0603A Series

PART NUMBER	L(μH)	DCR(mΩ)		Isat（A）	Irms(A)
	±20%	TYP	MAX	TYP	TYP
HGOP0603A-R47M	0.47	3.5	4.5	24.0	16.5
HGOP0603A-R68M	0.68	6.0	7.5	24.0	14.0
HGOP0603A-1R0M	1.0	7.0	8.5	20.0	10.0
HGOP0603A-1R5M	1.5	12.0	15.0	16.0	8.5
HGOP0603A-2R2M	2.2	15.0	18.0	12.0	8.0

HGOP0603A-3R3M	3.3	28.0	32.0	11.0	5.5
HGOP0603A-4R7M	4.7	34.0	38.0	10.0	5.0
HGOP0603A-6R8M	6.8	55.0	60.0	7.0	4.0
HGOP0603A-100M	10.0	66.0	72.0	6.0	3.3
HGOP0603A-150M	15.0	110.0	120.0	3.5	2.5
HGOP0603A-220M	22.0	113.0	125.0	2.3	1.8

HGOP0603C Series

PART NUMBER	L(μH)	DCR(mΩ)		Isat（A）	Irms(A)
	±20%	TYP	MAX	TYP	TYP
HGOP0603C-R22M	0.22	2.2	3.2	35.0	19.0
HGOP0603C-R33M	0.33	3.2	4.2	32.0	17.0
HGOP0603C-R47M	0.47	3.5	4.5	26.0	17.0
HGOP0603C-R68M	0.68	6.0	7.5	24.0	14.0
HGOP0603C-1R0M	1.0	7.0	8.5	22.0	12.0
HGOP0603C-1R5M	1.5	12.0	15.0	16.0	9.0
HGOP0603C-2R2M	2.2	15.0	18.0	14.0	8.5
HGOP0603C-3R3M	3.3	28.0	32.0	12.0	6.0
HGOP0603C-4R7M	4.7	34.0	38.0	10.0	5.5
HGOP0603C-6R8M	6.8	55.0	60.0	8.0	4.2
HGOP0603C-8R2M	8.2	66.0	72.0	7.0	3.5
HGOP0603C-100M	10.0	66.0	72.0	7.0	3.5
HGOP0603C-150M	15.0	105.0	115.0	4.0	2.5
HGOP0603C-220M	22.0	113.0	125.0	2.5	1.8
HGOP0603C-330M	33.0	245.0	265.0	2.2	1.5
HGOP0603C-470M	47.0	265.0	280.0	2.0	1.3
HGOP0603C-101M	100.0	740.0	770.0	1.4	0.7

HGOP0605C Series

PART NUMBER	L(μH)	DCR(mΩ)		Isat（A）	Irms(A)
	±20%	TYP	MAX	TYP	TYP
HGOP0605C-R68M	0.68	4.3	5.2	22.0	15.0
HGOP0605C-1R0M	1.0	5.0	6.5	20.0	14.5
HGOP0605C-1R5M	1.5	6.5	8.0	18.0	14.0
HGOP0605C-2R2M	2.2	13.0	16.0	14.0	12.0
HGOP0605C-3R3M	3.3	15.0	18.0	13.0	10.0

HGOP0605C-4R7M	4.7	24.0	28.0	12.0	7.5
HGOP0605C-6R8M	6.8	30.0	40.0	10.0	6.0
HGOP0605C-100M	10.0	55.0	62.0	7.0	4.0
HGOP0605C-150M	15.0	68.0	78.0	5.0	3.5
HGOP0605C-220M	22.0	73.0	85.0	4.5	2.8
HGOP0605C-330M	33.0	140.0	160.0	2.8	1.8
HGOP0605C-470M	47.0	175.0	190.0	2.5	1.5

HGOP1005C Series

PART NUMBER	L(μH)	DCR(mΩ)		Isat（A）	Irms(A)
	±20%	TYP	MAX	TYP	TYP
HGOP1005C-R30M	0.30	0.6	0.7	50.0	28.0
HGOP1005C-R56M	0.56	1.3	1.8	45.0	26.0
HGOP1005C-1R0M	1.0	2.0	2.8	30.0	19.0
HGOP1005C-1R5M	1.5	4.0	5.0	26.0	15.0
HGOP1005C-2R2M	2.2	5.0	6.5	24.0	13.0
HGOP1005C-3R3M	3.3	8.5	10.5	18.0	12.0
HGOP1005C-4R7M	4.7	9.0	11.0	15.0	9.0
HGOP1005C-6R8M	6.8	16.0	20.0	14.0	8.0
HGOP1005C-100M	10.0	26.0	32.0	13.0	7.0
HGOP1005C-470M	47.0	160.0	175.0	6.0	3.0
HGOP1005C-680M	68.0	170.0	182.0	4.0	2.2
HGOP1005C-100M	100.0	238.0	246.0	3.0	2.0

HGOP1365C Series

PART NUMBER	L(μH)	DCR(mΩ)		Isat（A）	Irms(A)
	±20%	TYP	MAX	TYP	TYP
HGOP1365C-R22M	0.22	0.5	0.8	50.0	35.0
HGOP1365C-R47M	0.47	0.8	1.4	50.0	30.0
HGOP1365C-R68M	0.68	1.2	2.0	50.0	28.0
HGOP1365C-R82M	0.82	1.8	2.4	50.0	26.0
HGOP1365C-1R0M	1.0	1.8	2.4	48.0	25.0
HGOP1365C-1R5M	1.5	2.4	3.0	45.0	24.0
HGOP1365C-2R2M	2.2	3.8	4.4	32.0	16.0
HGOP1365C-3R3M	3.3	7.2	10.0	25.0	14.0
HGOP1365C-4R7M	4.7	8.5	11.0	23.0	12.0
HGOP1365C-5R6M	5.6	10.5	13.0	20.0	11.0

HGOP1365C-6R8M	6.8	11.0	15.0	18.0	8.5
HGOP1365C-100M	10.0	20.0	28.0	16.0	7.0
HGOP1365C-150M	15.0	26.0	29.0	12.0	6.0
HGOP1365C-220M	22.0	50.0	55.0	10.0	5.0
HGOP1365C-330M	33.0	57.0	65.0	8.0	4.5
HGOP1365C-470M	47.0	70.0	90.0	7.0	4.0
HGOP1365C-680M	68.0	125.0	140.0	6.0	3.0
HGOP1365C-101M	100.0	145.0	160.0	4.0	2.5

1. **Measuring frequency at 100kHz, 1V**
2. **Saturation current : DC current that will cause Lo to drop approximately 30%.**
3. **Temperature rise current : DC current that will cause coil's temperature rise approximate ΔT= 40℃.**
4. **All test data is referenced to 25℃ ambient.**
5. **Operating Temperature Range -55℃ to +125℃**