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SMD INDUCTORS

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✧ SMD INDUCTORS

Multilayer ferrite chip inductors

Series	Appearance	Application	Spec	Inductance Range(H) (1n 10n 100n 1u 10u 100u 1m 10m)	I Max	Page
		For lower frequency	1608,2012,2520, 3216,3225,4532	10nH – 33uH	～300mA	1～5
		For lower frequency and high current power line	2012,3216	1uH – 10uH	～220mA	6～7
Multilayer ceramic chip inductors						
		For high frequency	1005,1608,2012	1nH – 330nH	～600mA	8～15
Wire wound ferrite chip inductors						
		For high Q	3225,4532,	100nH – 2.2mH	～700mA	16～19
		For high current and low DC resistance	3216,3225,4532, 5750	120nH –	～6A	20～23
		For unshielded type and highly Q	2016,2520	120nH – 100uH	～2A	24～27
		For shielded type and highly resistant/super Q	3225,4532,5650	5nH – 10mH	～450mA	28～32
		For unshielded type high current	2520,3225	1uH – 680uH	～1.5A	33～35
		For shielded type high current	4532,5650	1uH – 1mH	～1.8A	36～39
		For unshielded type and high frequency/low loss	1608,2520	470nH – 10uH	～1.1A	40～42
Wire wound ceramic chip inductors						
		For ultra high frequency	2015,2520,3216	2.7nH – 820nH	～750mA	43～46
		For RF signals/standard	1608,2012,2520	1nH – 10uH	～1.36A	47～52
		For RF signals/lowest profile	2012	1.8nH – 1uH	～800mA	53～55
		For RF signals/customer design	1608,2012,2520, 3216	1.5nH – 8.2uH	～1.04A	56～62
		For RF signals/high current/low loss	1608	1.6nH – 24nH	～2.4A	63～64
		For RF signals/high current/low loss	2012,2520	2.5nH – 100nH	～1.6A	65～67
SMD Power Inductors(unshielded)						
		For low cost/high power/high current	0301～1065	1uH – 1.5mH	～9.5A	68～73
		For high current/high density surface	1109	10uH – 1.2mH	～3.5A	74～76
		For DC-DC conversion/ high current/low voltage	0503,0804	560nH – 100uH	～30A	77～79
		For DC-DC conversion/ high energy storage/low resistance voltage	0401,04015,0402, 0802,0804,0810, 1306	1uH – 1mH	～20A	80～86

PRODUCTS CONTENTS

✧ SMD INDUCTORS

Series	Appearance	Application	Spec	Inductance Range(H) 1n 10n 100n 1u 10u 100u 1m 10m	I Max	Page
		For high energy storage/ minimum power loss	0402,0804,1306	2.2uH～150uH	～1.25A	87～90
SMD Power Inductors(shielded)						
		For high output and low resistance shielded	0704,105,125	1uH～	～2.06A	91～93
		For high power and low resistance/shielded	0704,105,125	10uH～320uH	～2.65A	94～97
		For lower frequency	2D11~6D38, 0602~127	1uH～1mH	～10A	98～106
		For high current power line	0628~1275	1.2uH～	～13A	107～112
		For large rated current and shielded	0402,0804,1306	1uH～	～5.5A	113～116
		For filter and smoothing circuit	0402,0804	1uH～1mH	～5A	117～119

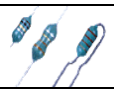
✧ BEADS

Multilayer chip beads

Series	Appearance	Application	Spec	Impedance	I Max	Page
		For high speed signals	1005,1608,2012,3216,	5～2700Ω（100MHZ）	～600mA	120～122
		For lower current signals/general	1005,1608,2012,3216,4516,4532	7～2700Ω（30，50，100MHZ）	～600mA	123～126
		For signal lines mid currents	1608,2012,3216,3225,4516,4532	7～2700Ω（30，50，100MHZ）	～1A	127～128
		For signal lines high current and Low DCR	1005,1608,2012,3216,	7～2700Ω（30，50，100MHZ）	～6A	129～131
		For signal lines ultra high current	1608,2012,3216,4516,4532	5～2700Ω（30，50，100MHZ）	～9A	132
		For suppressing noise. Suitable for high density circuit design	3216	30～1000Ω（100MHZ）	～350mA	133～135
SMD shielded beads						
		For high resistance fights heat and humidity/shielded	4232,7847,9632,8656	24～40Ω（25，100MHZ）	—	136～137
Leaded beads						
		For EMI ferrite from digital signals	025,035,0801,	5～130Ω（10，100MHZ）	—	138～139
		For EMI ferrite from digital signals	0610,0510	30～1158Ω（10，50，100MHZ）	—	140～141
		For EMI ferrite from digital signals	0810,1010,1310,1105	15～270Ω（25，100MHZ）	—	142～143

PRODUCTS CONTENTS

✧ Others products

Series	Appearance	Application	Spec	Inductance or others	I Max	Page
		For RF choke/high Q and SRF	0204,0307,0410, 0510,	L: 0.22uH~1000uH SRF:1.2MHZ~380MHZ	～3.61A	144～149
		For high and bandpass filtering	0809,0908,1013	L:1uH~120uH	～880mA	150～152
		For common mode choke	1307,1810,2208,2513,3113	—	—	153
		For data filters	0402	—	—	153
		For power line choke	1420,1920,2420	—	—	154
		For power choke	1005,1104,1305,1306,15061806,2006,2310,2711,3311	—	—	154
		For power choke	5018,5026,5052,6018,6052	—	—	155
		For choke coils	0716,1225,1223	—	—	156
		For choke coils	0406,0608,1016	—	—	156

Color Coding System

Color	Nominal inductance (H)			
	First Figure	Second Figure	Magnification/*	Tolerance
Black	0		1	20%
Brown	1		10	-
Red	2		100	-
Orange	3		1000	-
Yellow	4		-	-
Green	5		-	-
Blue	6		-	-
Purple	7		-	-
Gray	8		-	-
White	9		-	-
Gold	-		0.1	5%
Silver	-		0.01	10%

Chip inductors dimension conversion

Code	Dimension in mm(AXBXC)	EIA
100505	1.0x0.5x0.5	0402
160808	1.6x0.8x0.8	0603
201209	2.0x1.2x0.9	0805
201212	2.0x1.2x1.2	
252018	2.5x2.0x1.8	1008
321611	3.2x1.6x11	1206
321616	3.2x1.6x1.6	
322513	3.2x2.5x1.3	1210
451616	4.5x1.6x1.6	1806
453215	4.5x3.2x1.5	1812

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