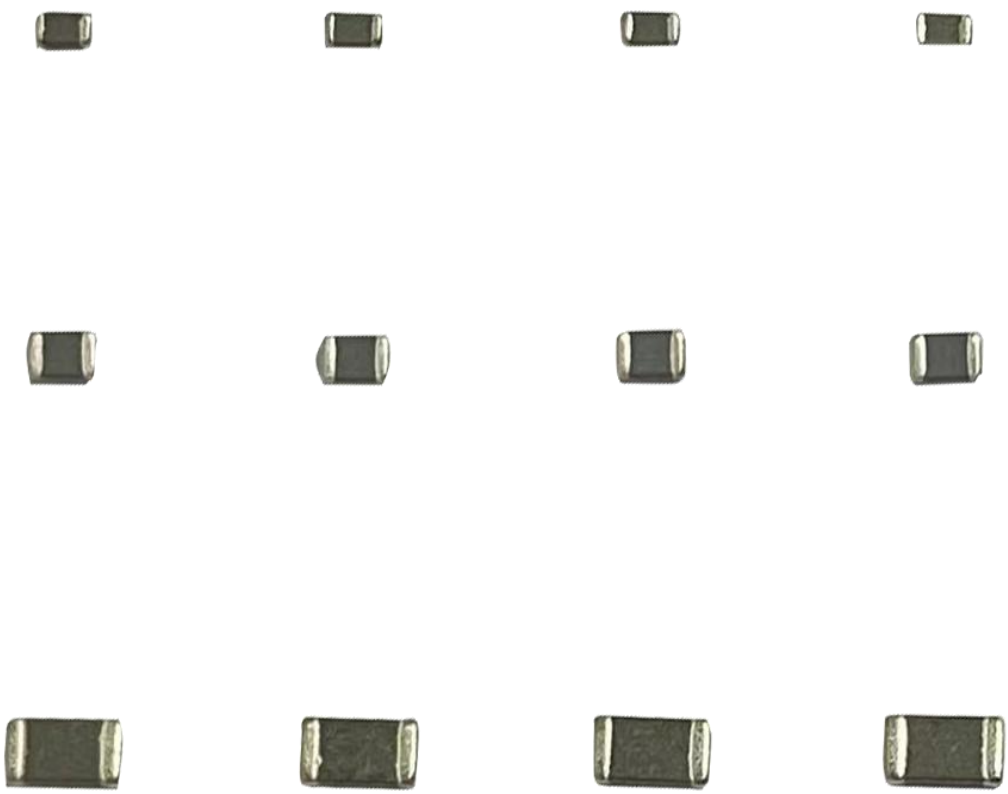
MULTILAYER CHIP FERRITE INDUCTOR

High rated current series



StricTron

Strictron Electronics Limited

S02-CBG04-01

Multilayer chip ferrite inductor

General notices

• The described product is designed for general use only, using in safety-critical, high-reliability or particular applications shall be pre-evaluated by customer.
• Strictron products are unilaterally subject to Strictron standards and are also compliant with common industry standards, demand or expectation from customer side is not warranted.
• Independent reliability of the described product is ensured by Strictron, risks or losses arising during or after particularly or unnormally applying the product, as well as arising from the finished module or product installed the described products, are always beyond the responsibility of Strictron.
• Please conduct validation and verification in actual condition of mounting and operating environment before widely use the described product in mass production.

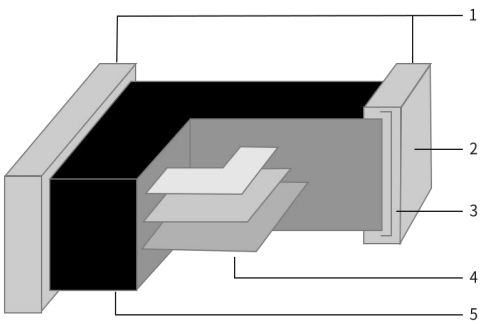
Product introduction

Multilayer chip ferrite inductor is classified according to structure. It has the advantages of small overall size, non directionality, standardized automatic chip mounting appearance, closed circuit without interactive interference, high-density installation feasibility and so on.

Multilayer chip ferrite inductor has excellent weldability and welding resistance, and is suitable for flow welding and reflow welding.

This kind of inductor is widely used for noise elimination of input and output lines on devices like notebook computers, digital TVs, digital video recorders, hard disk drives, personal computers, other general consumer electronic products, etc.

Structure profile



Structure diagram

Item	Structure part
1	Terminal electrode
2	Silver layer
3	Plating layer
4	Interior electrode
5	Ferrite body

Multilayer chip ferrite inductor

Part number naming rules

C**B	3216	T	-	G	5R6	M
Category	Size	Tape&reel		High rated current	Inductance	Tolerance
	①				②	③

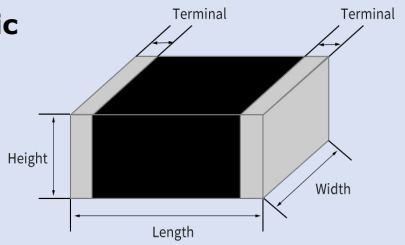
Postscript ②: Inductance					
R56	0.56μH	**5R6**	5.6μH	**560**	56μH

Postscript ③: Tolerance			
M	Inductance value ±20%	**K**	Inductance value ±10%

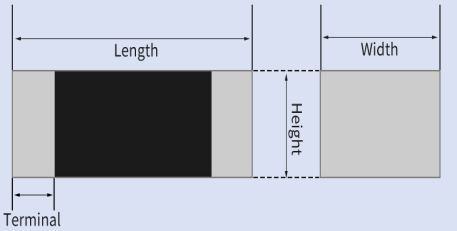
Postscript ①: Size(mm)					
Metric code	Imperial code	Length	Width	Height (max)	Terminal
1608	0603	1.6±0.20	0.8±0.20	1.05	0.30±0.20
2012	0805	2.0±0.20	1.2±0.20	1.45	0.50±0.30
2520	1008	2.5±0.20	2.0±0.20	1.15	0.50±0.30
3216	1206	3.2±0.20	1.6±0.20	1.35	0.50±0.30

Sketch

Stereoscopic



Planar



Multilayer chip ferrite inductor

Product parameter lineup

Size **1608**(0603)

Part code	Nominal inductance (μH)	Test frequency (MHz)	SRF (MHz) min.	RDC (Ω) max.	Rated current (mA) max.
1608T-GR10M	0.10	1	240	0.18	150
1608T-GR22M	0.22	1	150	0.25	150
1608T-GR33M	0.33	1	125	0.30	100
1608T-GR47M	0.47	1	105	0.45	100
1608T-GR56M	0.56	1	95	0.50	100
1608T-GR68M	0.68	1	90	0.55	100
1608T-GR82M	0.82	1	85	0.65	100
1608T-G1R0M	1.0	1	75	0.32	150
1608T-G1R5M	1.5	1	60	0.35	120
1608T-G2R2M	2.2	1	50	0.56	120
1608T-G3R3M	3.3	1	40	0.68	100
1608T-G4R7M	4.7	1	33	0.80	80
1608T-G5R6M	5.6	1	22	0.92	60
1608T-G6R8M	6.8	1	20	0.95	60
1608T-G8R2M	8.2	1	18	1.10	60
1608T-G100M	10	1	17	1.20	60
1608T-G120M	12	1	15	1.30	60

Multilayer chip ferrite inductor

Product parameter lineup

Size **2012**(0805)

Part code	Nominal inductance (μH)	Test frequency (MHz)	SRF (MHz) min.	RDC (Ω) max.	Rated current (mA) max.
2012T-GR10M	0.10	1	210	0.18	1100
2012T-GR18M	0.18	1	160	0.18	1100
2012T-GR22M	0.22	1	150	0.18	1100
2012T-GR33M	0.33	1	120	0.20	1100
2012T-GR47M	0.47	1	100	0.20	1100
2012T-GR56M	0.56	1	100	0.40	800
2012T-GR68M	0.68	1	95	0.40	800
2012T-GR82M	0.82	1	90	0.42	800
2012T-G1R0M	1.0	1	75	0.25	800
2012T-G1R5M	1.5	1	60	0.35	700
2012T-G2R2M	2.2	1	50	0.40	600
2012T-G3R3M	3.3	1	40	0.42	350
2012T-G4R7M	4.7	1	35	0.45	350
2012T-G5R6M	5.6	1	32	0.50	250
2012T-G6R8M	6.8	1	28	0.55	250
2012T-G8R2M	8.2	1	26	0.58	250
2012T-G100M	10	1	24	0.60	250
2012T-G120M	12	1	22	0.60	250
2012T-G150M	15	1	19	0.70	100

Multilayer chip ferrite inductor

Product parameter lineup

Size **2520**(1008)

Part code	Nominal inductance (μH)	Test frequency (MHz)	SRF (MHz) min.	RDC (Ω) max.	Rated current (mA) max.
2520T-G1R0M	1.0	1	70	0.15	1500
2520T-G1R5M	1.5	1	50	0.18	1500
2520T-G1R8M	1.8	1	40	0.20	1000
2520T-G2R2M	2.2	1	40	0.22	1000
2520T-G3R3M	3.3	1	30	0.25	1000
2520T-G4R7M	4.7	1	25	0.28	1000

Multilayer chip ferrite inductor

Product parameter lineup

Size **3216**(1206)

Part code	Nominal inductance (μH)	Test frequency (MHz)	SRF (MHz) min.	RDC (Ω) max.	Rated current (mA) max.
3216T-G1R0M	1.0	1	60	0.18	1200
3216T-G1R5M	1.5	1	60	0.20	1000
3216T-G1R8M	1.8	1	55	0.25	900
3216T-G2R2M	2.2	1	50	0.28	900
3216T-G3R3M	3.3	1	40	0.35	800
3216T-G4R7M	4.7	1	35	0.40	700
3216T-G5R6M	5.6	1	32	0.45	500
3216T-G6R8M	6.8	1	29	0.45	500
3216T-G8R2M	8.2	1	26	0.56	300
3216T-G100M	10	1	24	0.58	300
3216T-G120M	12	1	22	0.60	300
3216T-G150M	15	1	19	0.70	100
3216T-G180M	18	1	18	0.72	100