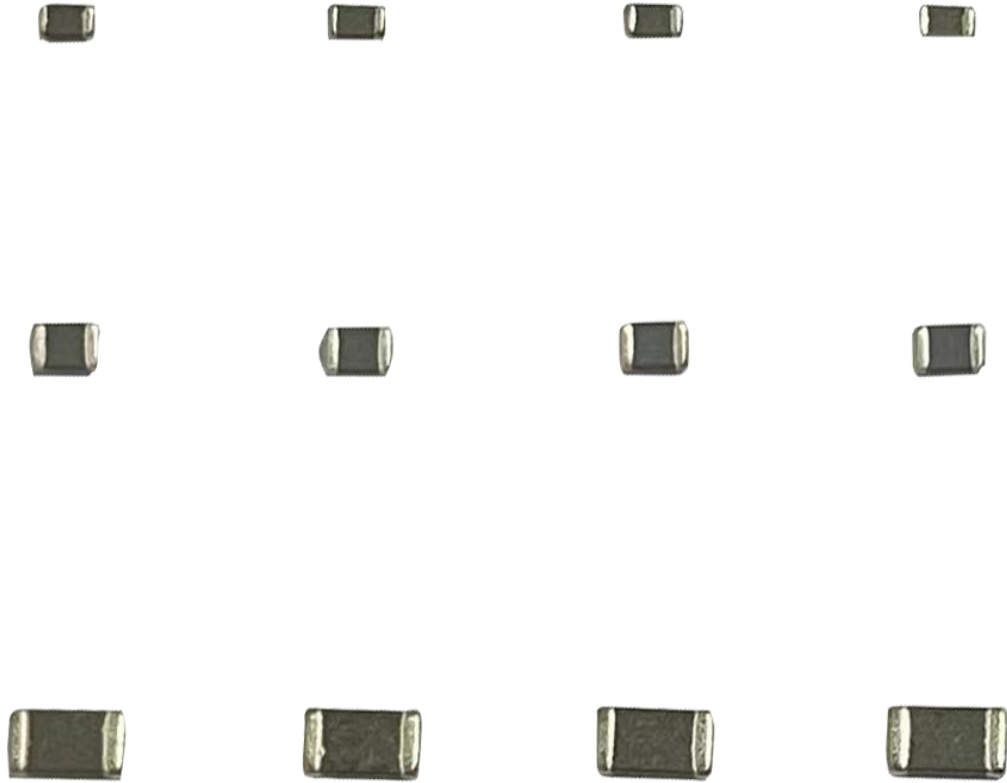


MULTILAYER CHIP FERRITE INDUCTOR

General purpose series



StricTron

Strictron Electronics Limited

S02-CB04-01

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.

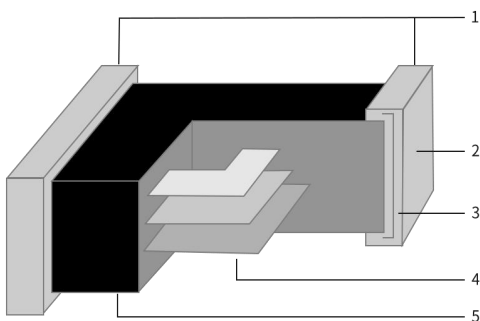
Product introduction

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	-	5R6	K
Category	Size	Tape&reel		Inductance	Tolerance
	①			②	③

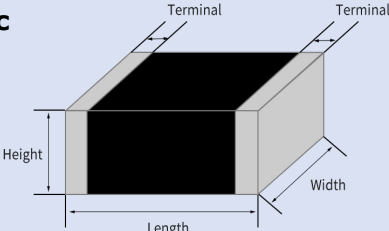
Postscript ②: Inductance					
R56	0.56μH	5R6	5.6μH	560	56μH

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

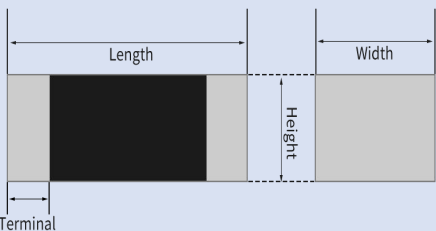
Postscript ①: Size(mm)					
Metric code	Imperial code	Length	Width	Height (max)	Terminal
1005	0402	1.0±0.15	0.5±0.15	0.70	0.25±0.10
1608	0603	1.6±0.20	0.8±0.20	1.05	0.30±0.20
2012	0805	2.0±0.20	1.2±0.20	1.45	0.50±0.30
3216	1206	3.2±0.20	1.6±0.20	1.35	0.50±0.30
3225	1210	3.2±0.20	2.5±0.20	1.55	0.50±0.30
4532	1812	4.5±0.20	3.2±0.20	1.75	0.50±0.30

Sketch

Stereoscopic



Planar



Size **1005**(0402)[illegible]

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.	Q
1608T-R10K	0.10	25	240	0.25	50	20
1608T-R33K	0.33	25	125	0.50	50	20
1608T-R68K	0.68	25	90	0.90	50	20
1608T-1R0K	1.0	10	75	0.50	25	25
1608T-1R5K	1.5	10	60	0.70	25	25
1608T-2R2K	2.2	10	50	0.85	25	25
1608T-3R3K	3.3	10	40	1.00	15	25
1608T-4R7K	4.7	10	33	1.50	15	25
1608T-5R6K	5.6	4	21	1.60	5	12
1608T-6R8K	6.8	4	20	1.60	5	12
1608T-100K	10	2	16	1.80	3	20
1608T-150M	15	1	14	2.55	1	20
1608T-220M	22	1	11	3.10	1	20

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.	Q
2012T-R10K	0.10	25	230	0.20	250	20
2012T-R33K	0.33	25	140	0.45	250	20
2012T-R68K	0.68	25	100	0.70	150	25
2012T-1R0K	1.0	10	75	0.40	50	35
2012T-2R2K	2.2	10	50	0.60	50	35
2012T-3R3K	3.3	10	40	0.60	50	35
2012T-4R7K	4.7	10	35	0.95	30	35
2012T-5R6K	5.6	4	32	1.05	15	30
2012T-6R8K	6.8	4	28	1.10	15	30
2012T-100K	10	2	24	1.20	15	30
2012T-150K	15	1	18	1.20	5	25
2012T-220K	22	1	16	1.30	5	25
2012T-330M	33	1	16	1.55	5	25
2012T-470M	47	1	15	1.80	5	25

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.	Q
3216T-R10K	0.10	25	235	0.25	250	25
3216T-R33K	0.33	25	145	0.30	250	25
3216T-R68K	0.68	25	105	0.50	150	30
3216T-1R0K	1.0	10	75	0.30	100	35
3216T-3R3K	3.3	10	40	0.50	50	35
3216T-5R6K	5.6	4	31	0.80	25	35
3216T-6R8K	6.8	4	28	0.80	25	35
3216T-100K	10	2	24	0.85	25	35
3216T-120K	12	2	22	0.90	15	35
3216T-150K	15	1	19	1.00	5	30
3216T-220K	22	1	16	1.20	5	30
3216T-330K	33	1	13	1.30	5	30
3216T-470K	47	1	12	1.60	5	30
3216T-560M	56	1	12	1.80	5	30
3216T-680M	68	1	10	2.10	5	30
3216T-820M	82	1	10	2.40	5	30
3216T-101M	100	1	8	3.10	5	30

Multilayer chip ferrite inductor



Product parameter lineup

Size **3225**(1210)

Part code	Nominal inductance (μH)	Test frequency (MHz)	SRF (MHz) min.	RDC (Ω) max.	Rated current (mA) max.	Q
3225T-1R0K	1.0	10	70	0.20	600	40
3225T-1R5K	1.5	10	70	0.30	500	40
3225T-2R2K	2.2	10	50	0.30	500	40
3225T-3R3K	3.3	10	50	0.40	500	40
3225T-4R7K	4.7	10	30	0.50	500	40
3225T-5R6K	5.6	4	30	0.60	450	35
3225T-6R8K	6.8	4	20	0.60	450	35
3225T-8R2K	8.2	4	20	0.70	400	35
3225T-100K	10	2	20	0.70	400	35
3225T-120K	12	2	20	0.75	400	35
3225T-150K	15	1	20	0.75	300	35
3225T-180K	18	1	10	0.75	300	35
3225T-220K	22	1	10	0.80	250	35
3225T-330K	33	1	10	0.85	250	35
3225T-470K	47	1	10	1.00	200	35
3225T-560M	56	1	5	1.20	200	35
3225T-680M	68	1	5	1.35	150	35
3225T-820M	82	1	5	1.55	150	35
3225T-101M	100	1	5	1.60	150	35
3225T-121M	120	1	5	1.90	150	35

Multilayer chip ferrite inductor



Product parameter lineup

Size **4532**(1812)

Part code	Nominal inductance (μH)	Test frequency (MHz)	SRF (MHz) min.	RDC (Ω) max.	Rated current (mA) max.	Q
4532T-1R0K	1.0	10	50	0.55	650	35
4532T-1R5K	1.5	10	45	0.55	600	35
4532T-2R2K	2.2	10	40	0.70	500	35
4532T-3R3K	3.3	10	35	0.75	500	35
4532T-4R7K	4.7	10	25	0.90	500	30
4532T-5R6K	5.6	4	20	0.90	500	30
4532T-6R8K	6.8	4	18	1.00	500	30
4532T-8R2K	8.2	4	17	1.00	450	30
4532T-100K	10	2	16	1.00	450	30
4532T-150K	15	1	14	1.00	400	35
4532T-220K	22	1	12	1.30	300	35
4532T-330K	33	1	10	1.50	250	40
4532T-470K	47	1	8	1.70	250	40
4532T-560K	56	1	8	1.80	250	40
4532T-680M	68	1	6	2.05	200	40
4532T-820M	82	1	6	2.30	200	40
4532T-101M	100	1	6	2.40	150	40
4532T-121M	120	1	6	2.55	150	40