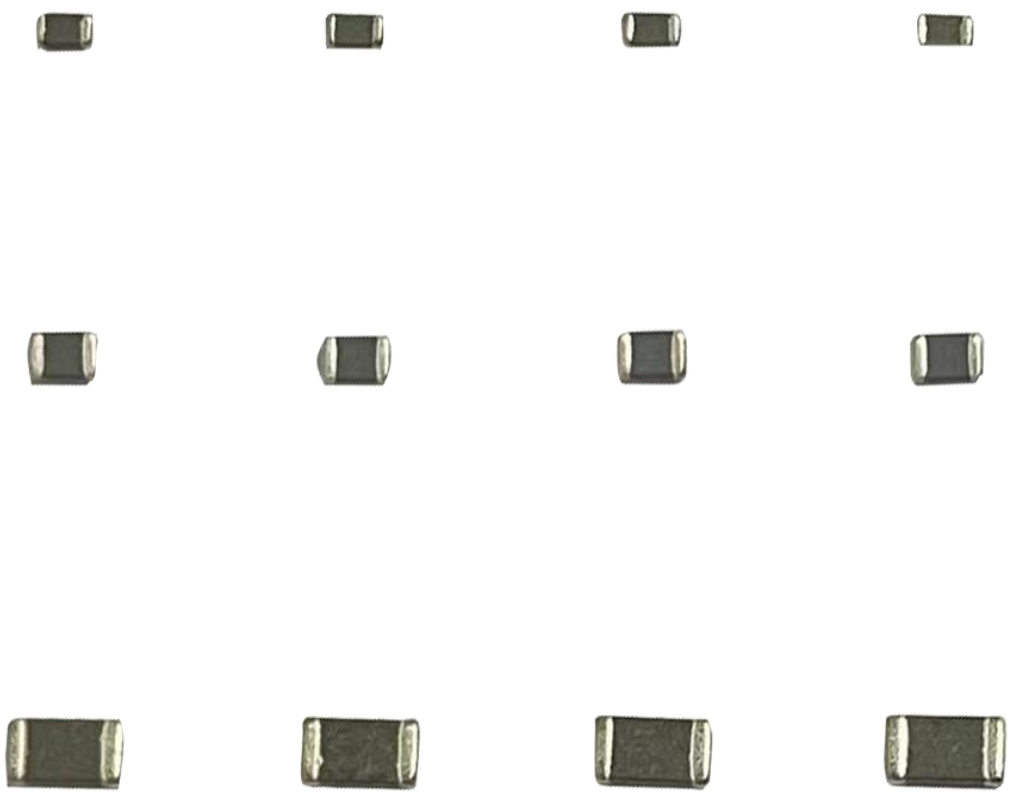
MULTILAYER CHIP FERRITE BEAD

General purpose series

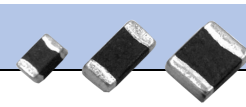


StricTron

Strictron Electronics Limited

S02-BN04-01

Multilayer chip ferrite bead



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.

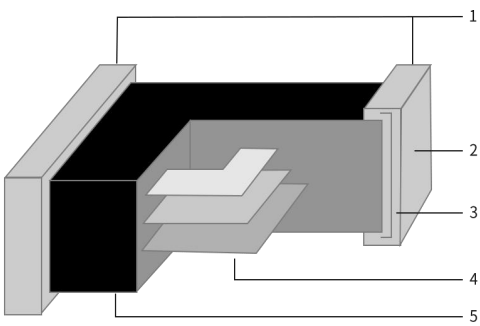
Product introduction

As a wide-used type of noise suppressing product, multilayer chip ferrite bead is made from soft ferrite material, it conducts great performance on EMI suppression in frequency range from MHz to GHz.

Miniaturization and lightweight are the outstanding strength of it. Besides, the closed magnetic circuit structure can efficiently eliminate the crosstalk of signals.

Generally the multilayer chip ferrite bead is used in clock generation circuit, I/O input or output internal connector(such as serial port, parallel port, keyboard, mouse, long-distance telecommunications and local area network), computer, printer, video recorder (VCR), TV system and mobile phone. As well as used in power supply circuit, between analog circuit and digital circuit, or used to filter high-frequency conducted interference between radio frequency (RF) circuits and those easily disturbed logic equipments.

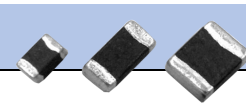
Structure profile



Structure diagram

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

Multilayer chip ferrite bead



Part number naming rules

B**	N	3216	-	102	T
Category	Series	Size		Impedence	Tape&reel
	①	③		②	

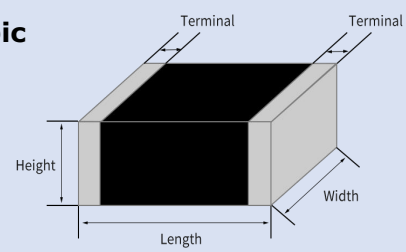
Postscript ①: Series	
N	General purpose series

Postscript ②: Impedance					
100	10Ω	**101**	100Ω	**102**	1000Ω

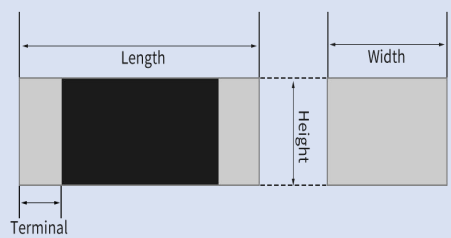
Postscript ③: Size(mm)					
Metric code	Imperial code	Length	Width	Height (max)	Terminal
1005	0402	1.0±0.15	0.5±0.15	0.70	0.25±0.10
1608	0603	1.6±0.20	0.8±0.20	1.05	0.30±0.20
2012	0805	2.0±0.20	1.2±0.20	1.45	0.50±0.30
3216	1206	3.2±0.20	1.6±0.20	1.35	0.50±0.30
3225	1210	3.2±0.20	2.5±0.20	1.55	0.50±0.30
4516	1806	4.5±0.20	1.6±0.20	1.85	0.50±0.30
4532	1812	4.5±0.20	3.2±0.20	1.75	0.50±0.30

Sketch

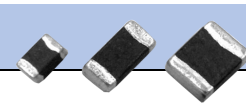
Stereoscopic



Planar



Multilayer chip ferrite bead

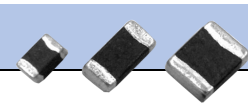


Product parameter lineup

Size **1005**(0402)

Part code	Nominal impedance (Ω)	Impedance tolerance	Test frequency (MHz)	RDC (Ω) max.	Rated current (mA) max.
N1005-100T	10	±50%	100	0.15	300
N1005-200T	20	±50%	100	0.15	300
N1005-300T	30	±25%	100	0.25	300
N1005-600T	60	±25%	100	0.36	200
N1005-800T	80	±25%	100	0.40	200
N1005-121T	120	±25%	100	0.55	150
N1005-151T	150	±25%	100	0.58	150
N1005-181T	180	±25%	100	0.63	150
N1005-221T	220	±25%	100	0.72	100
N1005-301T	300	±25%	100	0.85	100
N1005-501T	500	±25%	100	1.20	100
N1005-601T	600	±25%	100	1.40	100
N1005-801T	800	±25%	100	1.55	50
N1005-102T	1000	±25%	100	1.70	25

Multilayer chip ferrite bead

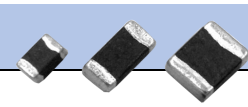


Product parameter lineup

Size **1608**(0603)

Part code	Nominal impedance (Ω)	Impedance tolerance	Test frequency (MHz)	RDC (Ω) max.	Rated current (mA) max.
N1608-100T	10	±50%	100	0.15	800
N1608-200T	20	±50%	100	0.15	800
N1608-300T	30	±25%	100	0.15	500
N1608-600T	60	±25%	100	0.22	300
N1608-800T	80	±25%	100	0.22	300
N1608-101T	100	±25%	100	0.22	300
N1608-151T	150	±25%	100	0.30	300
N1608-181T	180	±25%	100	0.33	300
N1608-221T	220	±25%	100	0.35	300
N1608-301T	300	±25%	100	0.40	200
N1608-501T	500	±25%	100	0.55	200
N1608-601T	600	±25%	100	0.55	200
N1608-801T	800	±25%	100	0.65	200
N1608-102T	1000	±25%	100	0.70	200
N1608-122T	1200	±25%	100	0.90	100
N1608-152T	1500	±25%	100	0.95	50
N1608-202T	2000	±25%	100	1.30	50
N1608-252T	2500	±25%	100	1.45	50

Multilayer chip ferrite bead

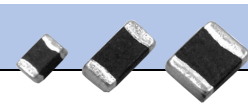


Product parameter lineup

Size **2012**(0805)

Part code	Nominal impedance (Ω)	Impedance tolerance	Test frequency (MHz)	RDC (Ω) max.	Rated current (mA) max.
N2012-100T	10	±50%	100	0.15	900
N2012-200T	20	±50%	100	0.15	900
N2012-300T	30	±25%	100	0.15	900
N2012-600T	60	±25%	100	0.18	900
N2012-800T	80	±25%	100	0.20	500
N2012-151T	150	±25%	100	0.25	400
N2012-181T	180	±25%	100	0.25	400
N2012-221T	220	±25%	100	0.25	400
N2012-301T	300	±25%	100	0.30	400
N2012-501T	500	±25%	100	0.40	300
N2012-601T	600	±25%	100	0.40	300
N2012-801T	800	±25%	100	0.46	300
N2012-102T	1000	±25%	100	0.50	300
N2012-152T	1500	±25%	100	0.90	100
N2012-182T	1800	±25%	100	1.00	50
N2012-202T	2000	±25%	100	1.05	50
N2012-252T	2500	±25%	50	1.25	50
N2012-282T	2800	±25%	50	1.45	25

Multilayer chip ferrite bead

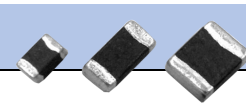


Product parameter lineup

Size **3216**(1206)

Part code	Nominal impedance (Ω)	Impedance tolerance	Test frequency (MHz)	RDC (Ω) max.	Rated current (mA) max.
N3216-100T	10	±50%	100	0.15	1000
N3216-200T	20	±50%	100	0.15	1000
N3216-300T	30	±25%	100	0.15	1000
N3216-600T	60	±25%	100	0.18	1000
N3216-101T	100	±25%	100	0.18	1000
N3216-151T	150	±25%	100	0.22	800
N3216-181T	180	±25%	100	0.22	800
N3216-221T	220	±25%	100	0.22	800
N3216-301T	300	±25%	100	0.25	800
N3216-501T	500	±25%	100	0.33	600
N3216-601T	600	±25%	100	0.35	600
N3216-801T	800	±25%	100	0.40	400
N3216-102T	1000	±25%	100	0.40	400
N3216-152T	1500	±25%	50	0.85	100
N3216-182T	1800	±25%	50	0.95	80
N3216-252T	2500	±25%	50	1.25	50
N3216-302T	3000	±25%	50	1.55	30

Multilayer chip ferrite bead

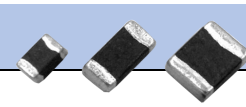


Product parameter lineup

Size **3225**(1210)

Part code	Nominal impedance (Ω)	Impedance tolerance	Test frequency (MHz)	RDC (Ω) max.	Rated current (mA) max.
N3225-100T	10	±50%	100	0.15	1000
N3225-300T	30	±25%	100	0.15	1000
N3225-600T	60	±25%	100	0.18	1000
N3225-101T	100	±25%	100	0.25	400
N3225-221T	220	±25%	100	0.45	400
N3225-301T	300	±25%	100	0.45	400
N3225-501T	500	±25%	100	0.45	300
N3225-601T	600	±25%	100	0.50	300
N3225-801T	800	±25%	100	0.50	300
N3225-102T	1000	±25%	100	0.50	300

Multilayer chip ferrite bead

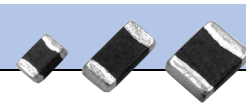


Product parameter lineup

Size **4516**(1806)

Part code	Nominal impedance (Ω)	Impedance tolerance	Test frequency (MHz)	RDC (Ω) max.	Rated current (mA) max.
N4516-200T	20	±50%	100	0.15	1000
N4516-600T	60	±25%	100	0.22	1000
N4516-101T	100	±25%	100	0.45	500
N4516-151T	150	±25%	100	0.45	500
N4516-301T	300	±25%	100	0.50	500
N4516-501T	500	±25%	100	0.55	200
N4516-601T	600	±25%	100	0.55	200
N4516-801T	800	±25%	100	0.65	200

Multilayer chip ferrite bead



Product parameter lineup

Size **4532**(1812)

Part code	Nominal impedance (Ω)	Impedance tolerance	Test frequency (MHz)	RDC (Ω) max.	Rated current (mA) max.
N4532-300T	30	±25%	100	0.18	1000
N4532-600T	60	±25%	100	0.25	1000
N4532-101T	100	±25%	100	0.25	500
N4532-151T	150	±25%	100	0.30	500
N4532-301T	300	±25%	100	0.40	300
N4532-601T	600	±25%	100	0.55	200