

EMI Suppression Product Mul til ayer Ferrite Bead THFB Series (high current)

FEATURES

- Internal printed layer enables a closed circuit acting as a magnetic shield for maximizing heat generation and minimizing crosstalk
- Closed magnetic circuit avoids crosstalk between adjacent circuitry
- Excellent solderability and heat resistance
- Monolithic structure design provides high reliability

APPLICATIONS

Noise countermeasure used in I/O lines for personal computers, digital TVs, video and AV products, printers, hard disk drives and other general consumer products. Most widely used on digital clock lines and general signal lines. Prevents signal interference between circuits in cellular phones (PHS, PDC, etc). For downsizing of board components, THFB1005 (0402) series size is an effective noise filter used in power supply lines due to the closed internal circuit acting as a magnetic shield.



SPECIFICATIONS

Operating temperature range $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$ Storage temperature range $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$

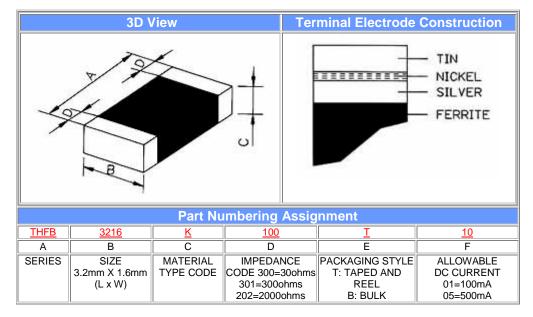
DIMENSION	งร
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Pkg. size	EIA Std	Α	В	С	D
5750	2220	5.7 ± 0.2	5.0 ± 0.2	1.8 ± 0.2	0.5 ± 0.3
4532	1812	4.5 ± 0.2	3.2 ± 0.2	1.5 ± 0.2	0.5 ± 0.3
4516	1806	4.5 ± 0.2	1.6 ± 0.2	1.6 ± 0.2	0.5 ± 0.3
3225	1210	3.2 ± 0.2	2.5 ± 0.2	1.3 ± 0.2	0.5 ± 0.3
3216	1206	3.2 ± 0.2	1.6 ± 0.2	1.1 ± 0.2	0.5 ± 0.3
2012	0805	2.0 ± 0.2	1.25 ± 0.2	0.85 ± 0.2	0.5 ± 0.3
1608	0603	1.6 ± 0.15	0.8 ± 0.15	0.85 ± 0.15	0.35 ± 0.3

Dimension in mm

PRECAUTIONS

After mounting components onto printed circuit board do not apply stress through board bending or mishandling When hand soldering, apply solder iron to the printed circuit board only. Temperature of the iron tip should not exceed 260°C with soldering time < 3 seconds.



<u>UNITED STATES</u> (Worl dwide)

Top Magnetics Corporation 13925 Magnol ia Avenue Chino, Cal ifornia 91710 USA

Tel: 909-590-8550 Fax: 909-590-8762

Website: www.topmagnetics.com

SINGAPORE (Asia Pacific)

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	Impedance	Test	Rated	DC					
Part Number	Z (Ohm) ±25%	Frequency (MHz)	Current (mA) Max.	Resistance (Ohm) Max.	A	В	С	D	
EIA2220									
THFB5750V-101T30	100	100	3000	0.04	5.7 ± 0.2	5.0 ± 0.2	1.8 ± 0.2	0.5 ± 0.3	
THFB5750V-151T30	150	100	3000	0.04	5.7 ± 0.2	5.0 ± 0.2	1.8 ± 0.2	0.5 ± 0.3	
THFB5750V-181T30	180	100	3000	0.04	5.7 ± 0.2	5.0 ± 0.2	1.8 ± 0.2	0.5 ± 0.3	
			El	A1812					
THFB4532K-800T60	80	100	6000	0.01	4.5 ± 0.2	3.2 ± 0.2	1.5 ± 0.2	0.5 ± 0.3	
THFB4532K-131T30	130	100	3000	0.04	4.5 ± 0.2	3.2 ± 0.2	1.5 ± 0.2	0.5 ± 0.3	
THFB4532M-151T50	150	100	5000	0.02	4.5 ± 0.2	3.2 ± 0.2	1.5 ± 0.2	0.5 ± 0.3	
THFB4532H-681T40	680	100	4000	0.03	4.5 ± 0.2	3.2 ± 0.2	1.5 ± 0.2	0.5 ± 0.3	
THFB4532H-132T30	1300	60	3000	0.06	4.5 ± 0.2	3.2 ± 0.2	1.5 ± 0.2	0.5 ± 0.3	
			EI	A1806					
THFB4516K-600T60	60	100	6000	0.01	4.5 ± 0.2	3.2 ± 0.2	1.5 ± 0.2	0.5 ± 0.3	
THFB4516K-800T30	80	100	3000	0.04	4.5 ± 0.2	3.2 ± 0.2	1.5 ± 0.2	0.5 ± 0.3	
			EI	A1210					
THFB3225K-600T40	60	100	4000	0.03	3.2 ± 0.2	0.5 ± 0.3			
THFB3225K-900T20	90	100	2000	0.10	3.2 ± 0.2	2.5 ± 0.2	1.3 ± 0.2	0.5 ± 0.3	
			EI	A1206					
THFB3216K-300T30	30	100	3000	0.04	3.2 ± 0.2	1.6 ± 0.2	1.1 ± 0.2	0.5 ± 0.3	
THFB3216K-500T30	50	100	3000	0.04	3.2 ± 0.2	1.6 ± 0.2	1.1 ± 0.2	0.5 ± 0.3	
THFB3216K-800T30	80	100	3000	0.04	3.2 ± 0.2	1.6 ± 0.2	1.1 ± 0.2	0.5 ± 0.3	
THFB3216K-121T20	120	100	2000	0.10	3.2 ± 0.2	1.6 ± 0.2	1.1 ± 0.2	0.5 ± 0.3	
THFB3216K-151T20	150	100	2000	0.10	3.2 ± 0.2	1.6 ± 0.2	1.1 ± 0.2	0.5 ± 0.3	
THFB3216K-301T10	300	100	1000	0.20	3.2 ± 0.2	1.6 ± 0.2	1.1 ± 0.2	0.5 ± 0.3	
THFB3216K-471T10	470	100	1000	0.20	3.2 ± 0.2	1.6 ± 0.2	1.1 ± 0.2	0.5 ± 0.3	
THFB3216K-501T30	500	100	3000	0.04	3.2 ± 0.2	1.6 ± 0.2	1.1 ± 0.2	0.5 ± 0.3	
THFB3216K-601T20	600	100	2000	0.10	3.2 ± 0.2	1.6 ± 0.2	1.1 ± 0.2	0.5 ± 0.3	

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5 (N)	Impedance	Test	Rated	DC			Dimensions (m/m)				
Part Number	Z (Ohm) ±25%	Frequency (MHz)			Α	В	С	D			
EIA0805											
THFB2012K-300T30	30	100	3000	0.04	2.	0 ±0.2	1.25 ± 0.2	0.85 ± 0.2	0.5 ± 0.3		
THFB2012K-800T30	80	100	3000	0.04	2.	0 ±0.2	1.25 ± 0.2	0.85 ± 0.2	0.5 ± 0.3		
THFB2012K-121T20	120	100	2000	0.10	2.	0 ±0.2	1.25 ± 0.2	0.85 ± 0.2	0.5 ± 0.3		
THFB2012K-151T20	150	100	2000	0.10	2.	0 ±0.2	1.25 ± 0.2	0.85 ± 0.2	0.5 ± 0.3		
THFB2012K-221T20	220	100	2000	0.10	2.	0 ±0.2	1.25 ± 0.2	0.85 ± 0.2	0.5 ± 0.3		
THFB2012K-301T10	300	100	1000	0.20	2.	0 ±0.2	1.25 ± 0.2	0.85 ± 0.2	0.5 ± 0.3		
THFB2012K-471T10	470	100	1000	0.20	2.	0 ±0.2) ±0.2 1.25 ± 0.2		0.5 ± 0.3		
THFB2012K-601T20	600	100	2000	0.10	2.	0 ±0.2	1.25 ± 0.2	0.85 ± 0.2	0.5 ± 0.3		
			EI	A0603							
THFB1608K-300T30	30	100	3000	0.04	1.6 ± 0.15		0.8 ± 0.15	0.8 ± 0.15	0.5 ± 0.2		
THFB1608K-800T30	80	100	3000	0.04	1.6	.6 ± 0.15 0.8 ± 0.15		0.8 ± 0.15	0.5 ± 0.2		
THFB1608K-121T20	120	100	2000	0.10	1.6	6 ± 0.15		0.8 ± 0.15	0.5 ± 0.2		
THFB1608K-151T20	150	100	2000	0.10	1.6	6 ± 0.15	0.8 ± 0.15	0.8 ± 0.15	0.5 ± 0.2		
THFB1608K-221T20	220	100	2000	0.10	1.6	6 ± 0.15	0.8 ± 0.15	0.8 ± 0.15	0.5 ± 0.2		
THFB1608K-301T10	300	100	1000	0.20	1.6 ± 0.15		0.8 ± 0.15	0.8 ± 0.15	0.5 ± 0.2		
THFB1608K-471T10	470	100	1000	0.20	1.6	6 ± 0.15	0.8 ± 0.15	0.8 ± 0.15	0.5 ± 0.2		
THFB1608K-601T10	600	100	1000	0.20	1.6	6 ± 0.15	0.8 ± 0.15	0.8 ± 0.15	0.5 ± 0.2		

Tape and reel packaging										
Dimension L x W x H	575018	453215	451616	322513	321616	321611	201212	201209	160808	100505
Chip/Reel	500	1000	2000	2500	2000	3000	2000	4000	4000	4000
Inner Box	2000	4000	8000	12500	10000	15000	10000	20000	20000	20000
Middle Box	10000	20000	40000	62500	50000	75000	50000	100000	100000	100000
Carton	20000	40000	80000	125000	100000	150000	100000	200000	200000	200000

UNIT OF MEASUREMENT: MM

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