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DIRECT

Electronics Tech.

(TCFB)

Ferrite Bead Filter

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▶ Product Introduction

Introduction (TCFB)

Features :

- Low cost, high reliability.
- Reducing radio frequency interference and noise.

Applications :

- VGA card, EGA card, Mother board, TV game.

Direct's Ferrite Beads Filter Filtering Radio Frequency Interference and Noise. Ferrite bead is a kind of anti-jamming applications the fastest growing components, cheap, easy to use, filtering high-frequency noise were improved significantly.

Ferrite beads commonly used in filtering and electromagnetic noise reduction, Direct's Ferrite Beads (TCFB) series manufactured by using iron, nickel, and zinc oxide mixture made with high resistivity and high magnetic permeability. Ferrite bead in series with the signal or power path, it can be used to suppress differential mode noise.



By comparing with traditional inductors, Direct's (TCFB) has better high-frequency filter characteristics. Ferrites at high frequencies showed resistance characteristics at high frequencies, equivalent to a low inductor quality factor, it can be quite a wide frequency range, to maintain high impedance, thereby enhancing the effectiveness of high-frequency filter.

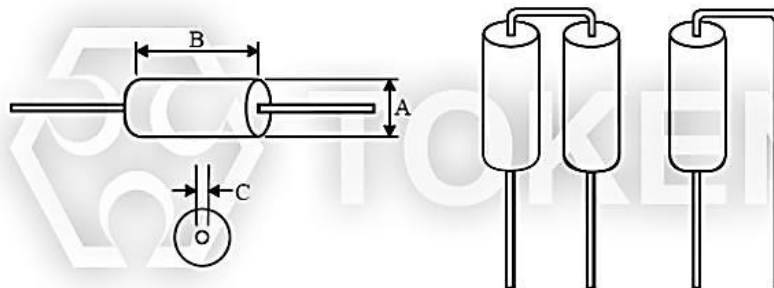
The (TCFB) series is lead-free and RoHS compliant. Detailed specifications, both mechanical and electrical, please contact our sales representative or link to Direct official website "[Through Hole Inductors](#)" for more information.



► **Configurations & Dimensions**

Configurations & Dimensions (Unit: mm) (TCFB)

Type	A	B	C	Impedance (Ω) Min.	
				10MHz	100MHz
TCFB*2515*	2.5±0.15	1.5±0.15	0.65	5.0	20.0
TCFB*2530*	2.5±0.15	3.0±0.20	0.65	8.0	25.0
TCFB*2540*	2.5±0.15	4.0±0.20	0.65	12.0	32.0
TCFB*2575*	2.5±0.15	7.0±0.30	0.65	20.0	58.0
TCFB*3530*	3.5±0.20	3.0±0.20	0.65	13.0	65.0
TCFB*3545*	3.5±0.20	4.5±0.20	0.65	20.0	45.0
TCFB*3547*	3.5±0.20	4.7±0.20	0.65	20.0	45.0
TCFB*3550*	3.5±0.20	5.0±0.20	0.65	20.0	50.0
TCFB*3560*	3.5±0.20	6.0±0.20	0.65	20.0	80.0
TCFB*3578*	3.5±0.20	7.8±0.30	0.65	28.0	90.0
TCFB*3583*	3.5±0.20	8.3±0.30	0.65	30.0	100.0
TCFB*3590*	3.5±0.20	9.0±0.40	0.65	60.0	100.0
TCFB*3510*	3.5±0.20	10.0±0.4	0.65	50.0	130.0
TCFB*3512*	3.5±0.20	12.0±0.5	0.65	45.0	145.0
TCFB*3514*	3.5±0.20	14.0±0.5	0.65	60.0	150.0



Dimensions (TCFB) Filtering High-Frequency Noise

● **Note: Only available some sizes for Radial Double & Single core type.**



Order Codes**Order Codes (TCFB)**

TCFB	A		3547	TB	
Part Number	Form		Outside Diameter "A" & Length "B"	Package	
TCFB	A	Axial Type		P	Bulk
	D	Radial double core type		TR	Taping Reel
	S	Radial single core type		TB	Tapping Box



► General Information

Leading-Edge Technology

Direct Electronics brand passive component specializes in standard and custom solutions offering the latest in state-of-the-art low profile high power density inductor components. Direct provides cost-effective, comprehensive solutions that meet the evolving needs of technology-driven markets. In working closely with the industry leaders in chipset and core development, we remain at the forefront of innovation and new technology to deliver the optimal mix of packaging, high efficiency and unbeatable reliability. Our designs utilize high frequency, low core loss materials, new and custom core shapes in combination with innovative construction and packaging to provide designers with the highest performance parts available on the market.

Find Inductor Solutions Faster

Find Your Inductor - rfq@token.com.tw

Only timely and accurate information can help manage the changing needs of your customers. The Direct Inductor Finder puts you only a click away from all of the inductor information you need.

Find Your Solution - rfq@token.com.tw

Selecting the correct inductor solution will not only save you time, but it will give you a competitive edge. At Direct, we are committed to helping you find the most efficient alternative for your power design. Our inductor and power supply design experts can help you make that selection.

Please forward us:

- A brief description of your particular application's requirements.
- Details of an existing solution that you'd like to replace, enhance or find an alternative.
- Inquiries for feasibility to tailor a power transformer or inductor to your specific application.

We can also help you with any additional technical information you might need relating to any of our products.

Ask Us Today

