

Common Mode Choke Coil Inductors

Leaded type common mode inductor Chokes clean up high-speed signals (TCB7T)

Preview

Token TCB7T series wire-wound common-mode choke coil includes a magnetic core having a winding core portion and a pair of flanges provided at respective ends of the winding core portion, external electrodes provided on the respective flanges, a pair of windings wound around the winding core portion, each end of the pair of the windings being extended and connected to the external electrode.

For designers seeking to suppress common mode noise on high speed differential signal lines, without distortion, Token has announced the TCB7T Series of compact through hole common-mode choke coils. Taking advantage of Token's advanced winding technology and superior ferrite materials, the TCB7T coils are ultracompact and provide accurate transmission of high-speed differential signals.

Common mode choke coil circuits are increasingly being used for the effective suppression of common mode noise without distorting the waveform of high-speed signals. The TCB7T wirewound coils measure just 7.2 x 7.1 x 4.5 mm in maximum profile, with a tight ± 0.5 mm dimensional tolerance, making them ideal for today's high speed products, particularly those incorporating double balance mixers, impedance transformers, broad-band transformers applications.

Custom parts are available on request. Token will also produce devices outside these specifications to meet specific customer requirements, please contact our sales for more information.

Features :

- Pair wire coil for high stability.

Applications :

- Double balance mixers, impedance transformers.
- broad-band transformers.



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Configurations & Dimensions



Note: Design as Customer's Requested Specifications

Electrical Characteristics

Part Number	Winding Turns	Operating Freq. Ranges (MHz)	Insertion Loss (dB)	Figure
Double balanced mixer	,			
TCB7T - 456DB1013	1	$50 \sim 400$	10dB(max)	1
TCB7T - 456DB1014	2	$10 \sim 1.0 \text{ GHz}$	6dB(max)	1
TCB7T - 456DB1005	3	$8 \sim 800$	3.5dB(max)	1
TCB7T - 456DB1006	4	$6 \sim 600$	2.5dB(max)	1
TCB7T - 456DB1007	5	$5 \sim 500$	2dB(max)	1
TCB7T - 456DB1009	2	$400 \sim 1.3 \ GHz$	4dB(max)	1
Distributor				
TCB7T - 456DS1012	-	20~600	In to Out-1,2 4.5dB(max) Out-1 to Out-2 (Isolation)10dB(min)	2
Directional coupler				
TCB7T - 456PS1015	4	$6 \sim 600$	In to Out-1 1.3dB(max) In to Out-2 11dB-14dB	3
TCB7T - 456PS1016	5	6~600	In to Out-1 0.9dB(max) In to Out-2 13dB-16dB	3
TCB7T - 456PS1011	6	$6 \sim 600$	In to Out-1 0.8dB(max) In to Out-2 15dB-17dB	3



Pin connections Diagram



How to Order



• Part Number: TCB7T

456DB1013	
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0	Type
U	Type

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Code	Туре	
456DS	Distributor	
456PS	Directional coupler	
456DB	Double balance mixer	

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