



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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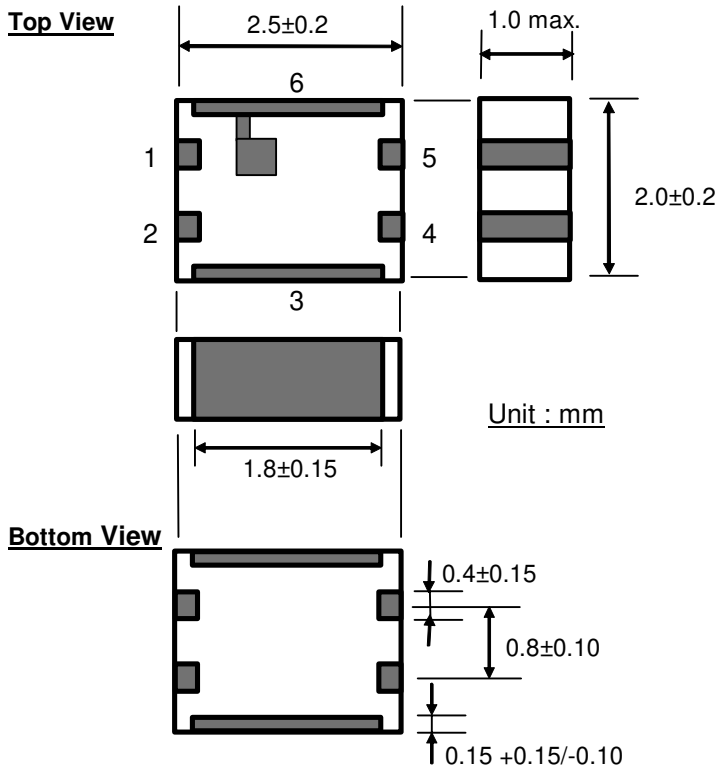


Multilayer Band Pass Filter (Balance output type)

P/N : **DEA252450BT-7046A1**

For Bluetooth

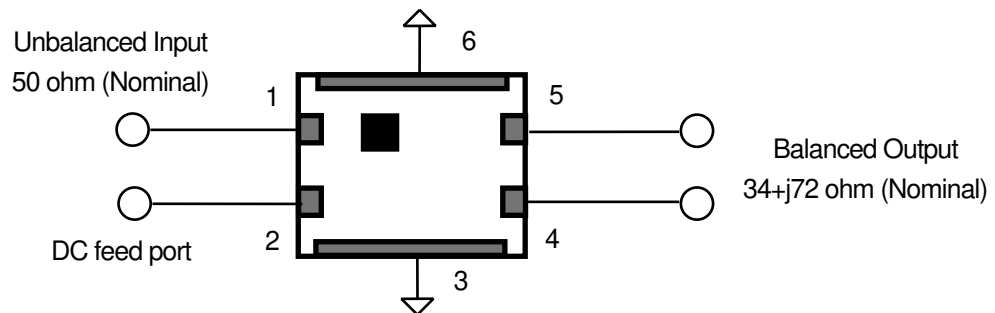
MECHANICAL DIMENSIONS



PIN CONFIGURATION

PIN ASSIGNMENT	PIN No.
Unbalanced	1
Balanced	4,5
GND	3,6
DC feed or RF GND	2

Note : Internal DC path from Pin 2 to balanced ports.



Note: All specifications are subject to change and are not guaranteed.

ELECTRICAL CHARACTERISTICS (Ta=25±5 °C)

Parameter		Specification	Typical Value	Unit
Frequency Range (Pass Band)		2400 – 2500	-	MHz
Unbalanced Port Characteristics Impedance		50 (Nominal)	-	Ω
Balanced Port Characteristics Impedance		34+j72 (Nominal)	-	Ω
Unbalanced Port Return Loss		8.0 min.	10.3	dB
Insertion Loss (Pass Band)		3.0 max.	2.6	dB
Attenuation	880 - 960 MHz	50 min.	60	dB
	1710 - 1880 MHz	48 min.	51	dB
	1880 - 1990 MHz	38 min.	43	dB
	4800 - 5000 MHz	25 min.	31	dB
	7200 - 7500 MHz	10 min.	27	dB
Amplitude Imbalance at Balanced Port		1.0 max.	0.1	dB
Phase Difference at Balanced Port	+25 °C	180 ± 8	180	Deg.
	-40 ~ +85 °C	180 ± 10	-	Deg.

TEMPERATURE RANGE

Storage Temperature : -40 ~ +85 °C
 Operating Temperature : -40 ~ +85 °C

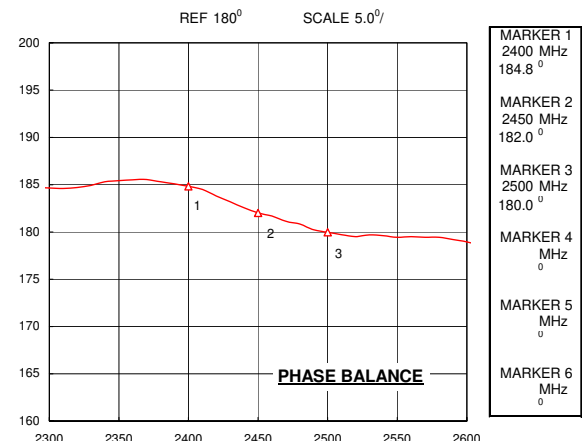
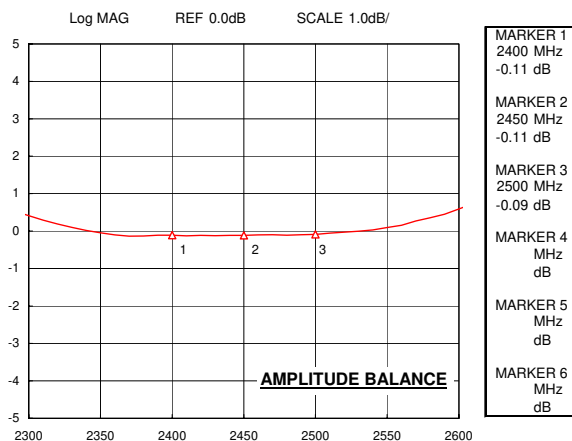
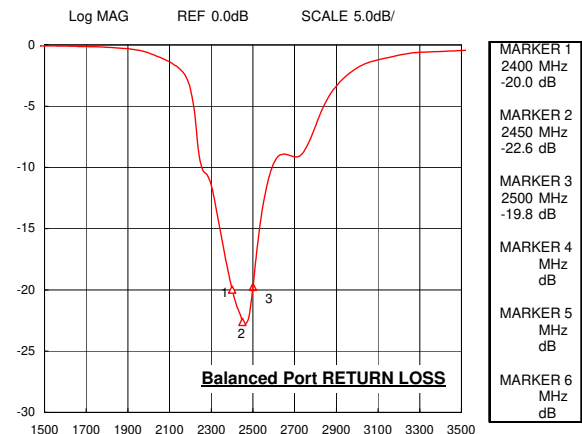
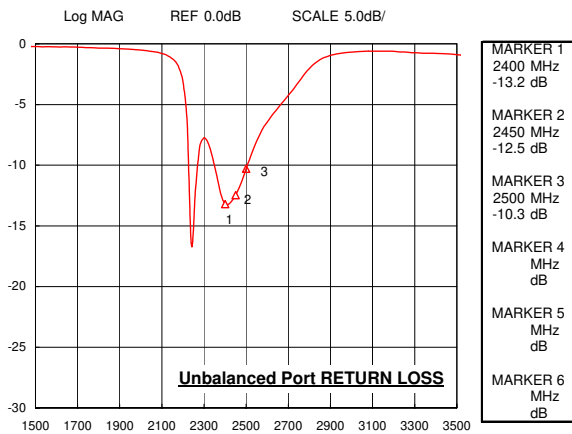
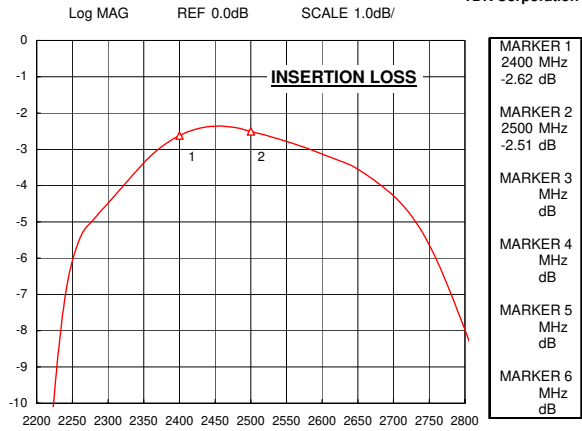
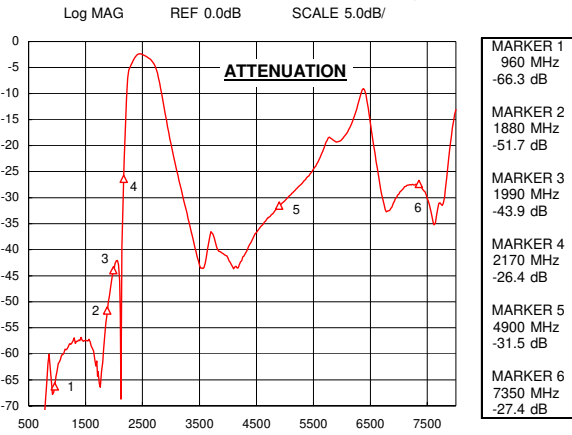
FREQUENCY RESPONSE

DEA252450BT-7046A1

Unbalance Side : Z= 50 ohm
Balance Side : Z= 34+j72.2 ohm
SCALE 5.0dB/

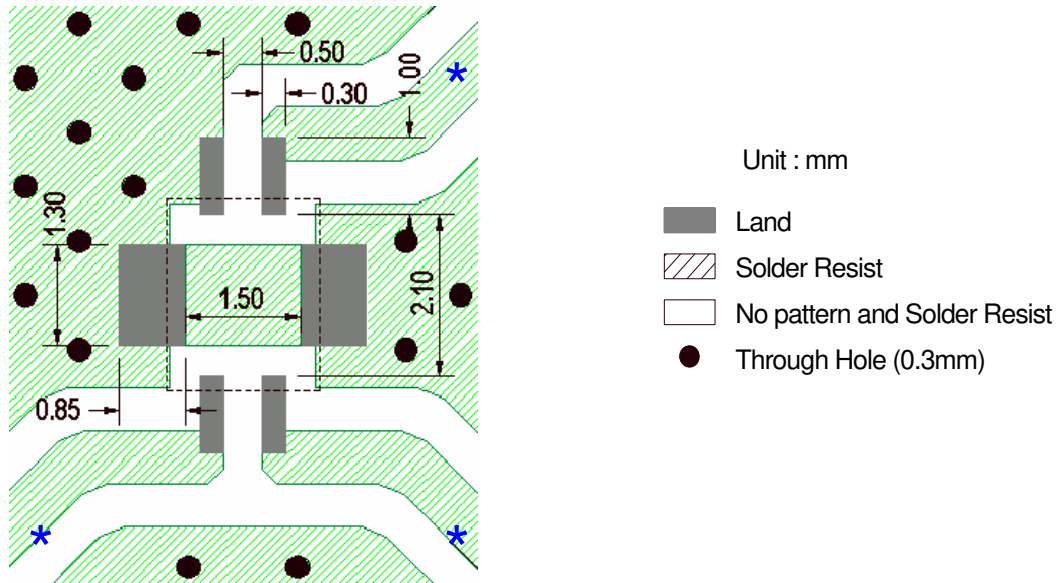
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23/Jan/2005
TDK Corporation



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RECOMMENDED PCB PATTERN



* Coplanar waveguide (Line width and Gap of Line to GND) to be designed to match 50ohm characteristic impedance , depending on PCB material and thickness.