

TDK RF Products for Wireless LAN

11/4/2002

for 2.4GHz

Multilayer BalBPF

Start Freq. MHz	Stop Freq. MHz	Ins. Loss dB (MAX)	Bal. imped. ohm	Attenuation (Typ.)				Size mm (typ.)	Part No.
				MHz	dB	MHz	dB		
2400	2500	3.0	50	1900	30	4800	36	2.5x2.0x1.0	<u>DEA252450BT-7001B1</u>
2400	2500	4.0	100	1900	40	4800	26	2.5x2.0x1.0	<u>DEA252450BT-7002A1</u>
2400	2500	3.0	200	1900	44	4800	37	2.5x2.0x1.0	<u>DEA252450BT-7004B1</u>

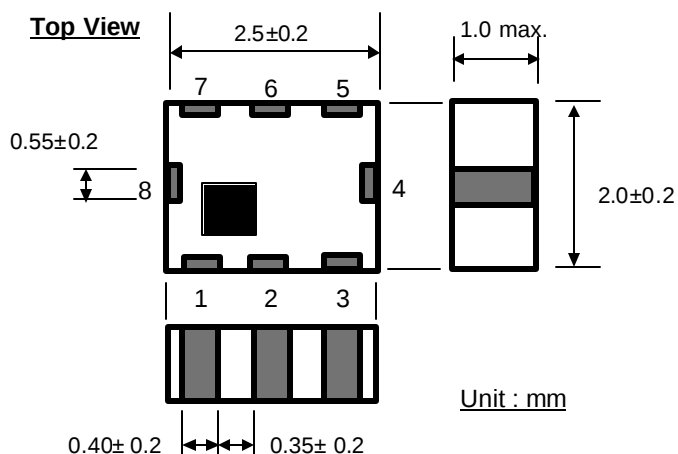
	Sample Available
	Under developing

Multilayer Band Pass Filter with Balun

P/N : **DEA252450BT-7001B1**

For Bluetooth & 2.4GHz W-LAN

MECHANICAL DIMENSIONS



PIN CONFIGURATION

PIN ASSIGNMENT	PIN No.
Unbalanced	4
Balanced	1
Balanced	2
GND or DC feed	6
GND	3,5,7,8

ELECTRICAL CHARACTERISTICS

Unbalanced Impedance	50 OHM
Balanced Impedance	50 OHM
Frequency Range (Pass Band)	2400 – 2500 MHz
Input Return Loss	5 dB min.
Phase Imbalance at Balanced Ports	180 ± 20 deg.
Amplitude Imbalanced at Balanced Ports	0 ± 2.0 dB
Insertion Loss (25 °C)	3.0 dB max.
Insertion Loss (FULL TEMP)	3.3 dB max.
Attenuation (1710 – 1920 MHz)	25 dB min.
Attenuation (4800 – 5000 MHz)	15 dB min.

TEMPERATURE RANGE

Storage Temperature: -40 ~ +85 °C

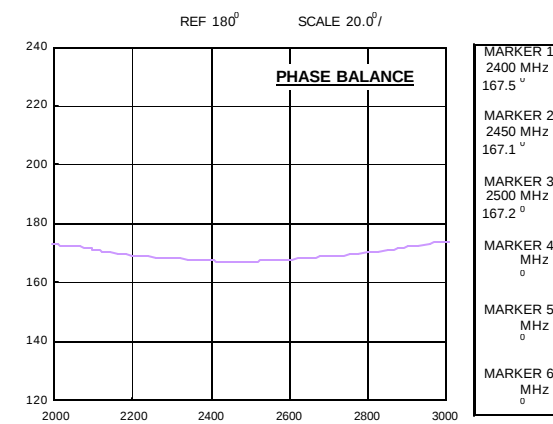
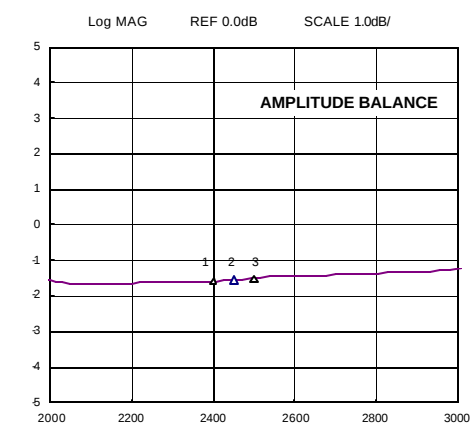
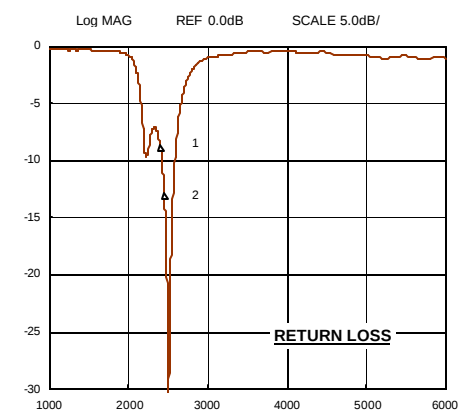
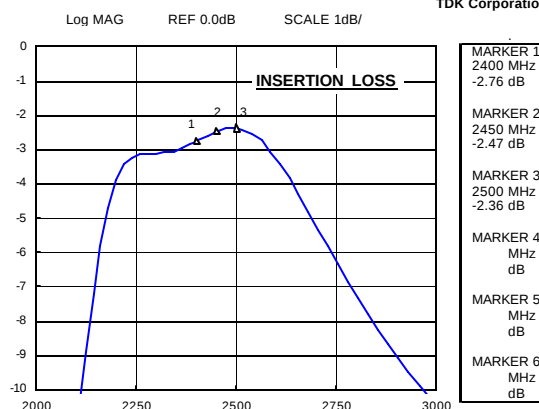
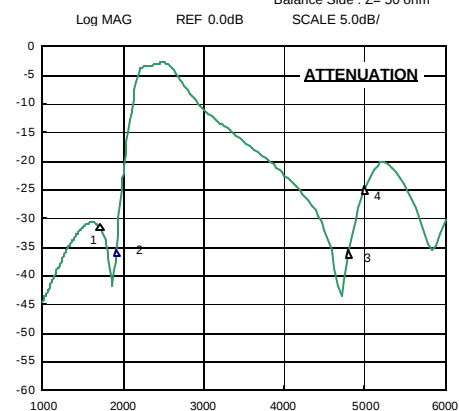
Operating Temperature: -40 ~ +85 °C

FREQUENCY RESPONSE

DFA252450BT-7001B1Unbalance Side : Z= 50 ohm
Balance Side : Z= 50 ohm

24/Oct/2002

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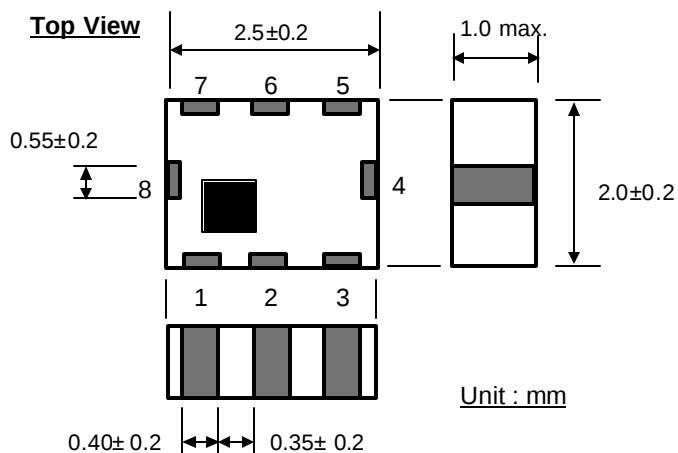
Note: All specifications are subject to change and are not guaranteed.

Multilayer Band Pass Filter with Balun

P/N : **DEA252450BT-7002A1**

For Bluetooth & 2.4GHz W-LAN

MECHANICAL DIMENSIONS



PIN CONFIGURATION

PIN ASSIGNMENT	PIN No.
Unbalanced	4
Balanced	1
Balanced	2
GND or DC feed	6
GND	3,5,7,8

ELECTRICAL CHARACTERISTICS

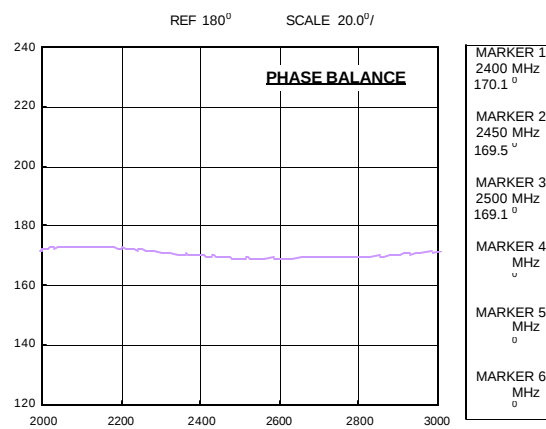
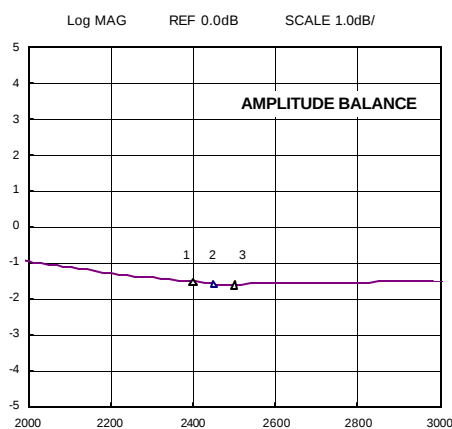
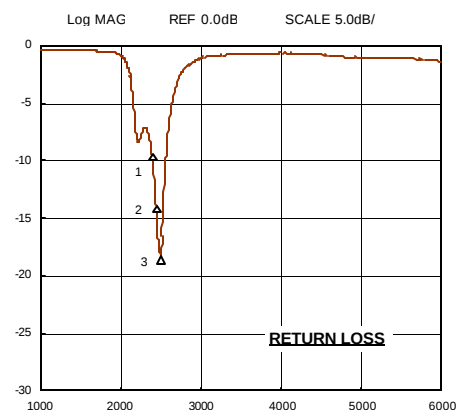
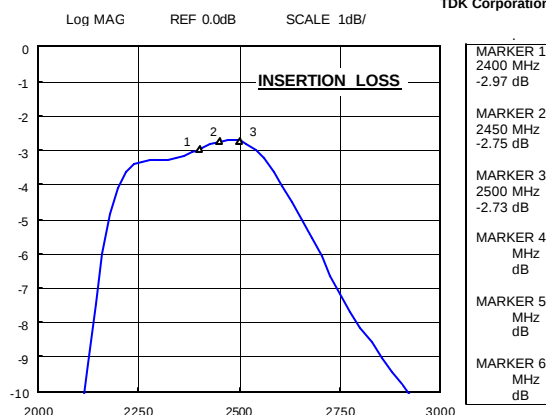
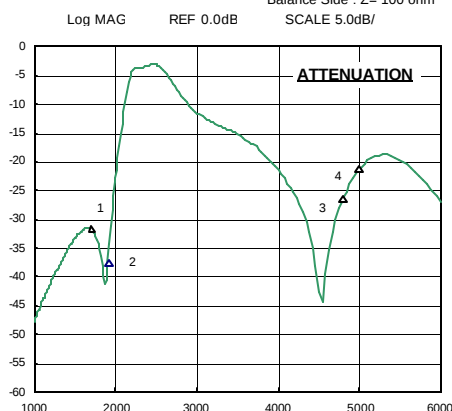
Unbalanced Impedance	50 OHM
Balanced Impedance	100 OHM
Frequency Range (Pass Band)	2400 – 2500 MHz
Input Return Loss	5 dB min.
Phase Imbalance at Balanced Ports	180 ±20 deg
Amplitude Imbalanced at Balanced Ports	0 ± 2.0 dB
Insertion Loss (25 °C)	4.0 dB max.
Insertion Loss (FULL TEMP)	4.3 dB max.
Attenuation (1710 – 1920 MHz)	25 dB min.
Attenuation (4800 – 5000 MHz)	15 dB min.

TEMPERATURE RANGE

Storage Temperature: -40 ~ +85°C

Operating Temperature: -40 ~ +85°C

FREQUENCY RESPONSE

DEA252450BT-7002A1Unbalance Side : Z= 50 ohm
Balance Side : Z= 100 ohm27/Sep/2002
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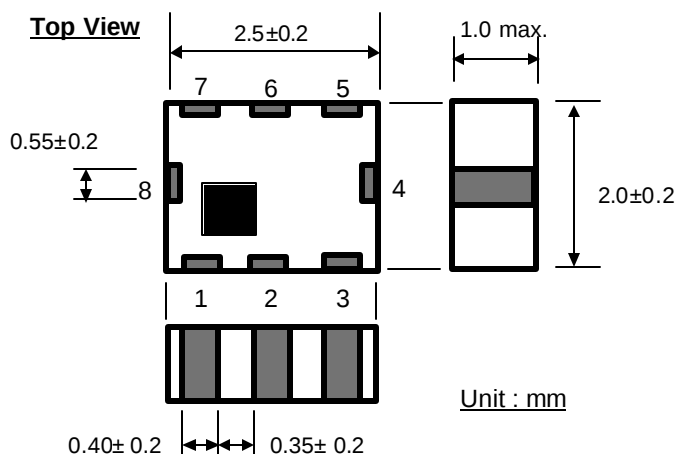
Note: All specifications are subject to change and are not guaranteed.

Multilayer Band Pass Filter with Balun

P/N : **DEA252450BT-7004B1**

For Bluetooth & 2.4GHz W-LAN

MECHANICAL DIMENSIONS



PIN CONFIGURATION

PIN ASSIGNMENT	PIN No.
Unbalanced	4
Balanced	1
Balanced	2
GND or DC feed	6
GND	3,5,7,8

ELECTRICAL CHARACTERISTICS

Unbalanced Impedance	50 ohm
Balanced Impedance	200 ohm
Frequency Range (Pass Band)	2400 – 2500 MHz
Input Return Loss	5 dB min.
Phase Imbalance at Balanced Ports	180 ±10 deg
Amplitude Imbalanced at Balanced Ports	0 ± 2.0 dB
Insertion Loss (25 °C)	3.0 dB max.
Insertion Loss (FULL TEMP)	3.3 dB max.
Attenuation (1710 – 1920 MHz)	25 dB min.
Attenuation (4800 – 5000 MHz)	15 dB min.

TEMPERATURE RANGE

Storage Temperature: -40 ~ +85°C

Operating Temperature: -40 ~ +85°C

FREQUENCY RESPONSE

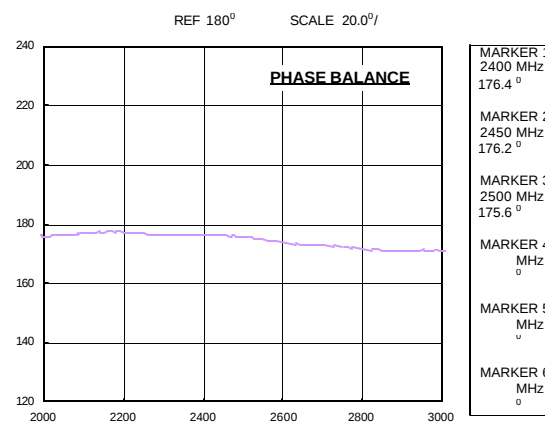
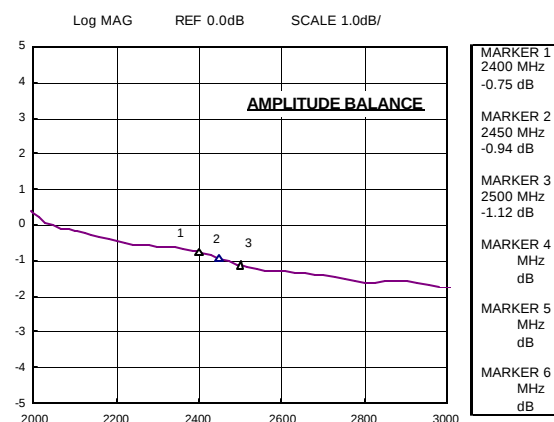
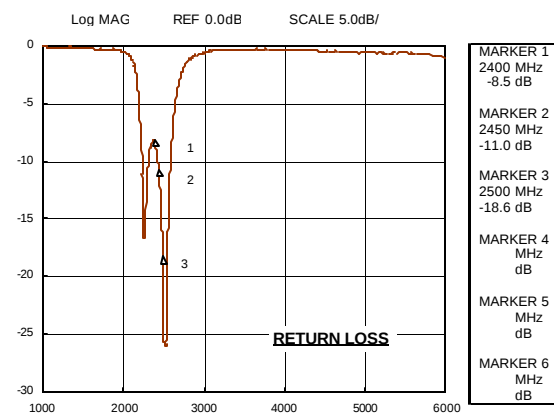
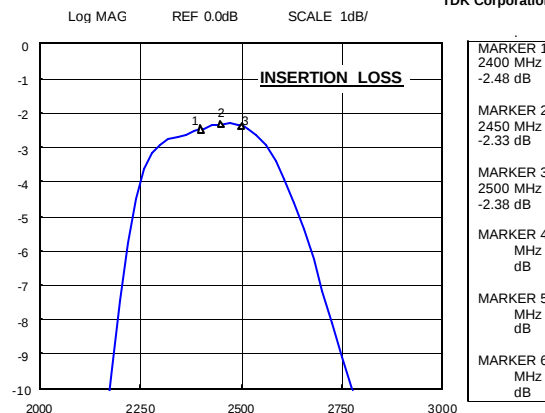
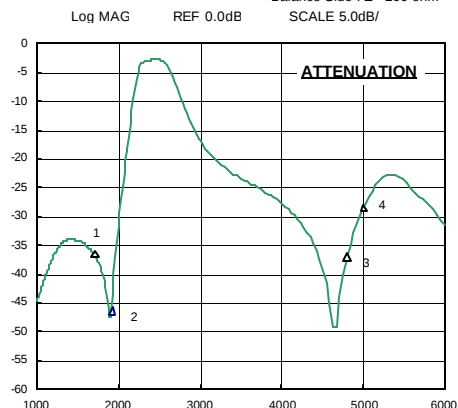
DEA252450BT-7004B1

Unbalance Side : Z= 50 ohm

Balance Side : Z= 200 ohm

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