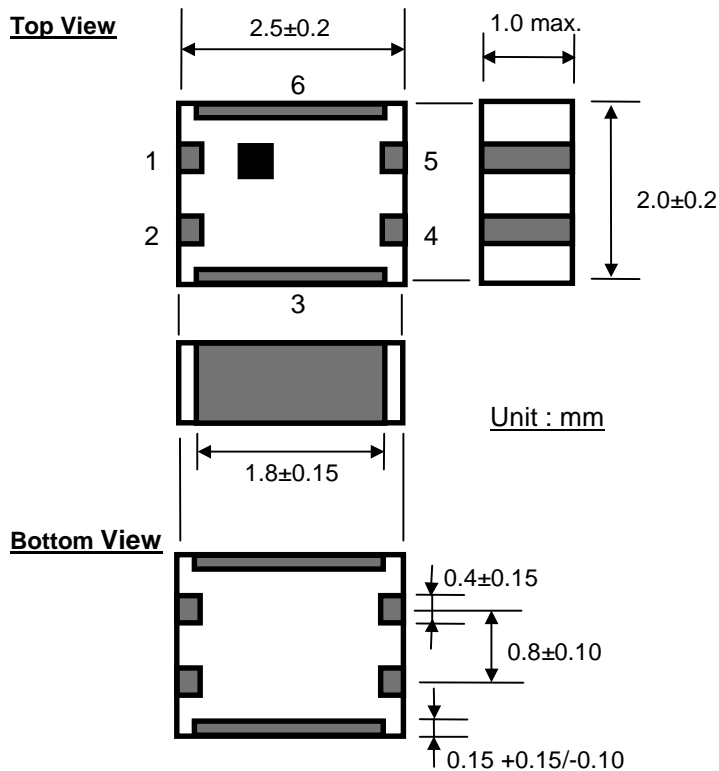


## Multilayer Band Pass Filter (Balance output type)

P/N : **DEA252450BT-7035B2**

**For Bluetooth** (This product is matched to CSR's Bluetooth chip BC3 ROM.)

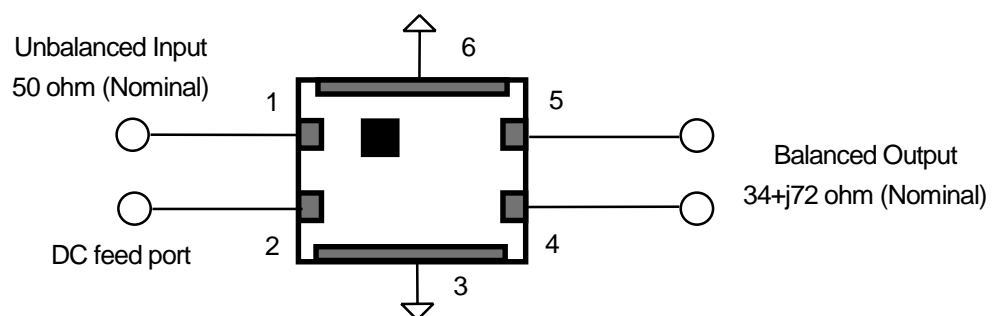
### MECHANICAL DIMENSIONS



### 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

Parameter		Specification	Typical Value	Unit
Frequency Range (Pass Band)		2400 – 2500	-	MHz
Unbalanced Port Characteristics Impedance		50 (Nominal)	-	$\Omega$
Balanced Port Characteristics Impedance		34+j72 (Nominal)	-	$\Omega$
Unbalanced Port Return Loss		8.0 min.	10.9	dB
Insertion Loss (Pass Band)	-40 ~ +85°C	3.6 max.	3.1	dB
Ripple (Pass Band)		1.0 max.	0.2	dB
Attenuation	880 - 960 MHz	50 min.	62	dB
	1710 - 1880 MHz	48 min.	53	dB
	1880 - 1990 MHz	38 min.	43	dB
	2110 - 2170 MHz	30 min.	38	dB
	4800 - 5000 MHz	25 min.	32	dB
	7200 - 7500 MHz	20 min.	35	dB
Amplitude Imbalance at Balanced Port		1.0 max.	0.3	dB
Phase Difference at Balanced Port	+25°C	180 ± 8	180 ± 4	Deg.
	-40 ~ +85°C	180 ± 10	-	Deg.

## TEMPERATURE RANGE

Storage Temperature : -40 ~ +85 °C

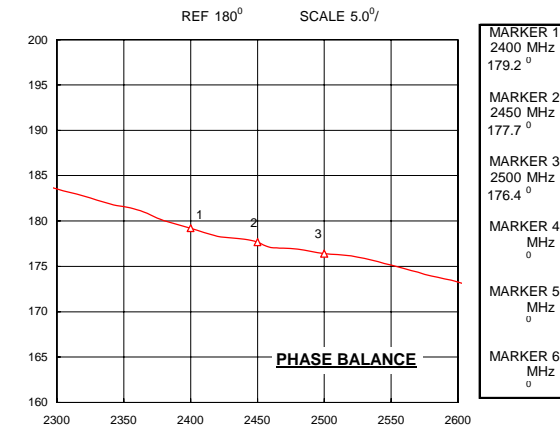
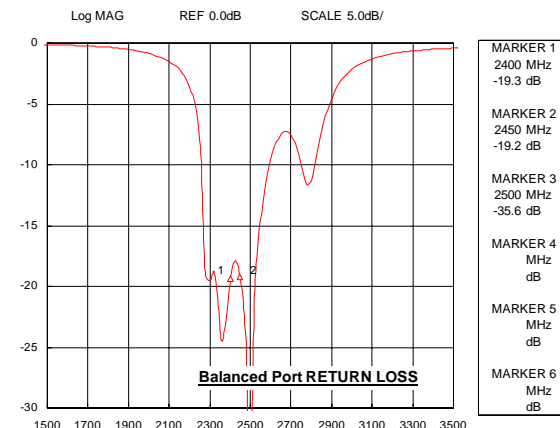
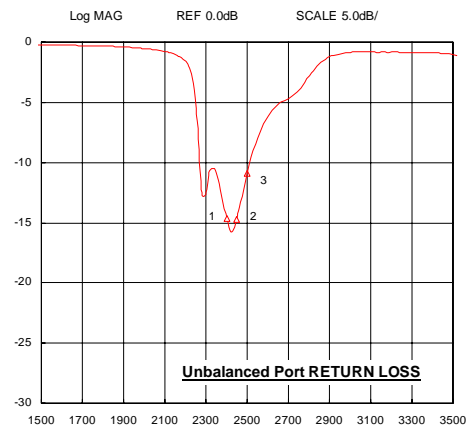
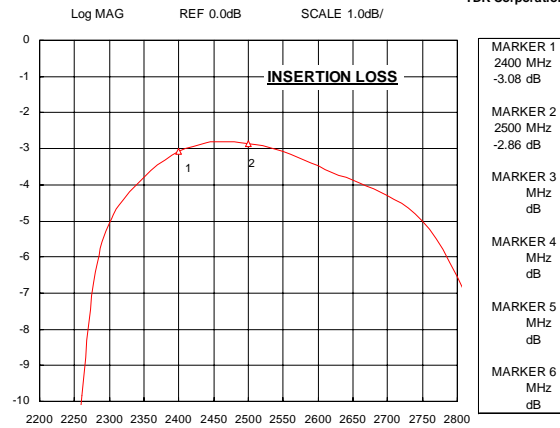
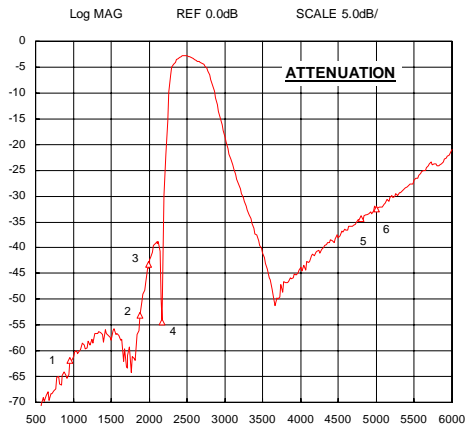
Operating Temperature : -40 ~ +85 °C

# FREQUENCY RESPONSE

**DEA252450BT-7035B**

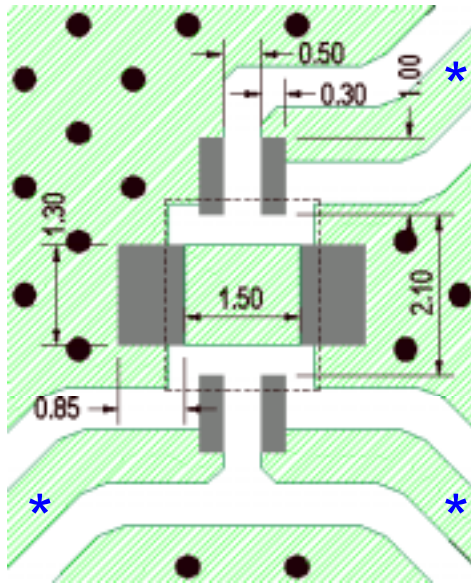
 Unbalance Side : Z= 50 ohm  
 Balance Side : Z= 34+j72.2 ohm





s23e

 20/May/2004  
 TDK Corporation


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

## RECOMMENDED PCB PATTERN



- Unit : mm
-  Land
  -  Solder Resist
  -  No pattern and Solder Resist
  -  Through Hole (0.3mm)

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