

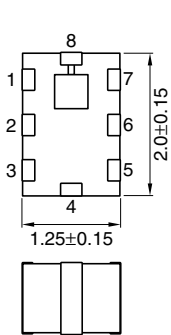
Multilayer Chip Band Pass Filters(Balance Output Type) Conformity to RoHS Directive

For Bluetooth & 2.4GHz W-LAN

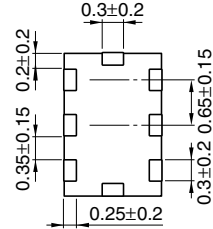
DEA Series DEA202450BT-7077A1

SHAPES AND DIMENSIONS

Top view



Bottom view

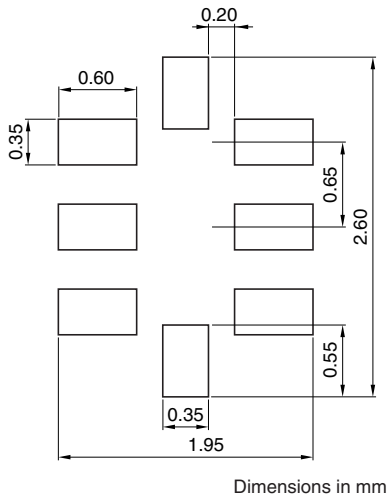


Dimensions in mm

Terminal functions

1	Unbalanced port
2	DC feed + RF GND or GND
3	NC
4	GND
5	Balanced port
6	GND
7	Balanced port
8	GND

RECOMMENDED PC BOARD PATTERN



Dimensions in mm

- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

- All specifications are subject to change without notice.

ELECTRICAL CHARACTERISTICS

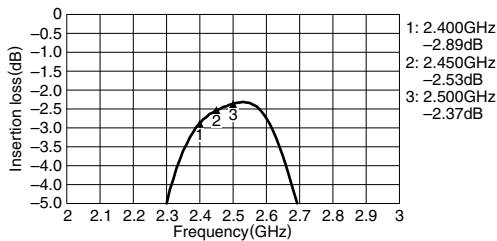
Frequency range(Pass band)		2400MHz	2500MHz
Insertion loss	[+25°C]	—	3.5dB max.
	[−40 to +85°C]	—	3.8dB max.
Single ended port characteristic impedance		50Ω (Nominal)	—
Balanced port differential characteristics impedance		34+j72Ω (Nominal)	—
Attenuation	[880 to 960MHz]	40dB	—
	[1710 to 1880MHz]	38dB	—
	[1880 to 1990MHz]	38dB	—
	[2110 to 2170MHz]	17dB	—
	[4800 to 5000MHz]	25dB	—
	[7200 to 7500MHz]	27dB	—
Single ended return loss		9.0dB	—
Balanced return loss		9.0dB	—
Phase difference at balanced port		170deg.	190deg.
Amplitude imbalance at balanced port		−1.0dB	1.0dB
Temperature range	Operating	−40 to +85°C	
	Storage	−40 to +85°C	

• Ta: +25°C

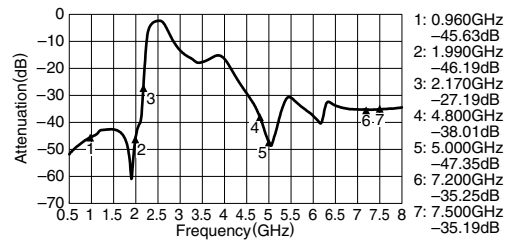
FREQUENCY CHARACTERISTICS

Unbalance 50Ω/Balance 34+j72Ω

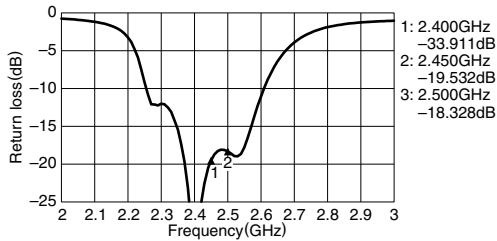
SDS21 INSERTION LOSS



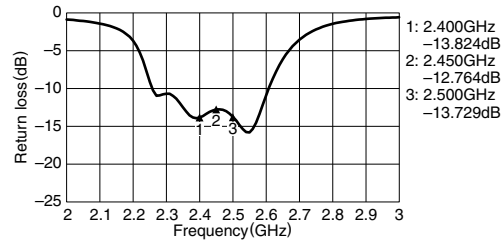
SDS21 ATTENUATION



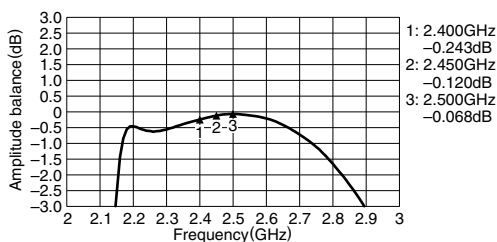
S11 UNBALANCE RETURN LOSS



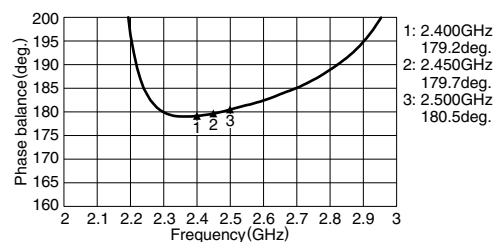
SDD22 BALANCE RETURN LOSS



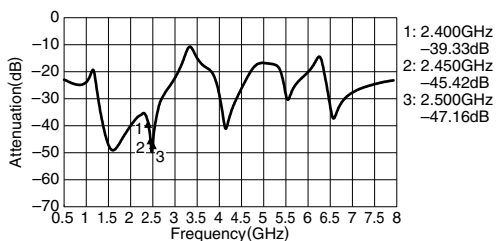
AMPLITUDE BALANCE



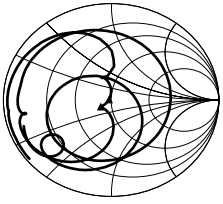
PHASE BALANCE



SCS21 CMRR



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SMITH CHARTS**S11****SDD22**