

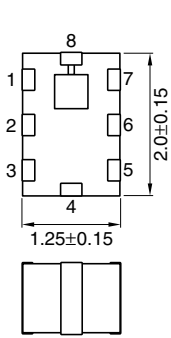
Multilayer Chip Band Pass Filters(Balance Output Type) Conformity to RoHS Directive

For Bluetooth & 2.4GHz W-LAN

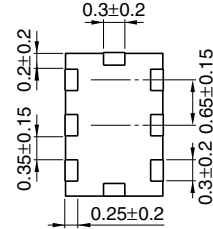
DEA Series DEA202450BT-7112B1

SHAPES AND DIMENSIONS

Top view



Bottom view

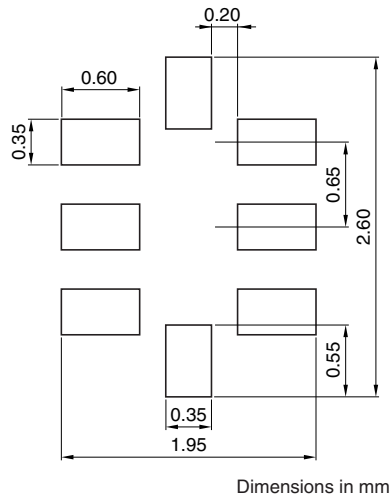


Dimensions in mm

Terminal functions

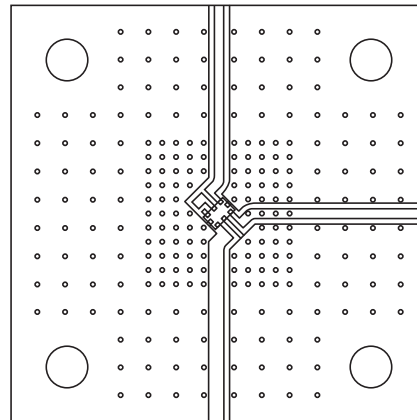
1	Unbalanced port
2	NC
3	NC
4	GND
5	Balanced port
6	GND
7	Balanced port
8	GND

RECOMMENDED PC BOARD PATTERN



Dimensions in mm

EVALUATION BOARD



Port extension value is 139.56ps for all port.

- 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

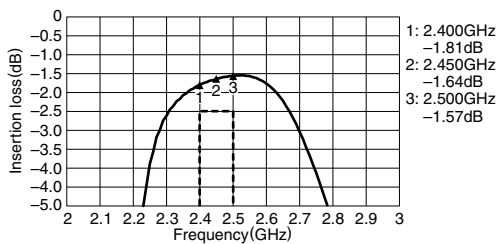
Frequency range(Pass band)		2400MHz	2500MHz
Insertion loss	[+25°C]	—	2.5dB max.
	[−40 to +85°C]	—	2.8dB max.
Single ended port characteristic impedance		50Ω (Nominal)	—
Balanced port differential characteristics impedance		50+j40Ω (Nominal)	—
Attenuation	[10 to 915MHz]	41dB	—
	[925 to 960MHz]	34dB	—
	[1570 to 1580MHz]	30dB	—
	[1710 to 1785MHz]	40dB	—
	[1805 to 1880MHz]	26dB	—
	[1850 to 1910MHz]	40dB	—
	[1920 to 1990MHz]	31dB	—
	[4800 to 5000MHz]	25dB	—
Single ended return loss		[2400 to 2500MHz] 9dB	—
Balanced return loss		[2400 to 2500MHz] 9dB	—
Phase difference at balanced port		[2400 to 2500MHz] 170deg.	190deg.
Amplitude imbalance at balanced port		[2400 to 2500MHz] −2dB	2dB
Common mode attenuation	[88 to 108MHz]	15dB	—
	[4800 to 5000MHz]	18dB	—
Common mode impedance [4900MHz]	Magnitude	0.6	—
	Angle	−45deg.	12deg.
Temperature range	Operating	−40 to +85°C	—
	Storage	−40 to +85°C	—

• Ta: +25°C

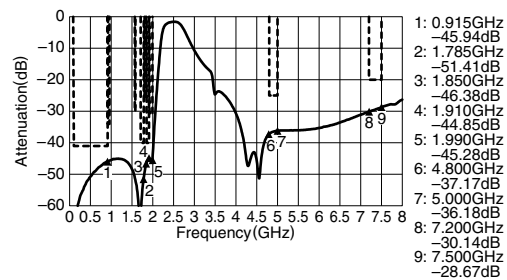
FREQUENCY CHARACTERISTICS

Unbalance 50Ω/Balance 50+j40Ω

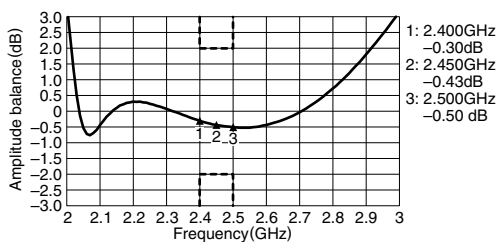
SDS21 INSERTION LOSS



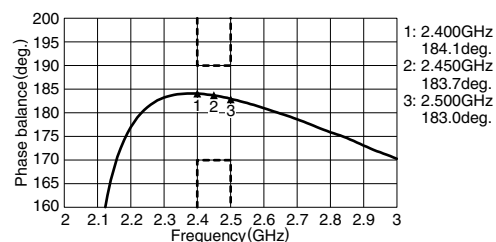
SDS21 ATTENUATION



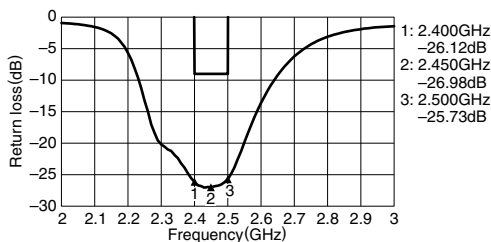
AMPLITUDE BALANCE



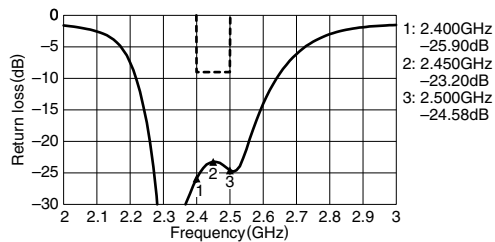
PHASE BALANCE



S11 UNBALANCE RETURN LOSS



SDD22 BALANCE RETURN LOSS

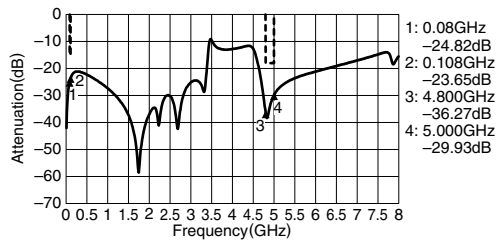


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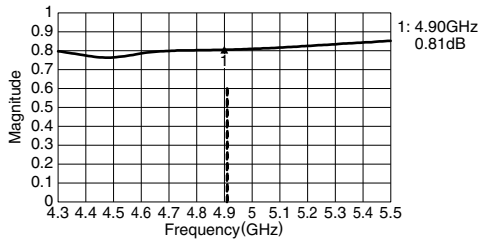
FREQUENCY CHARACTERISTICS

Unbalance 50Ω/Balance 50+j40Ω

SCS21



SCC22 MAGNITUDE



SCC22 ANGLE

