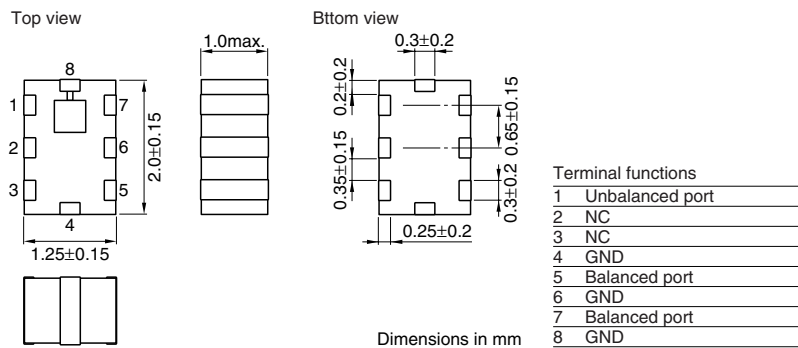


Multilayer Chip Band Pass Filters(Balance Output Type) Conformity to RoHS Directive

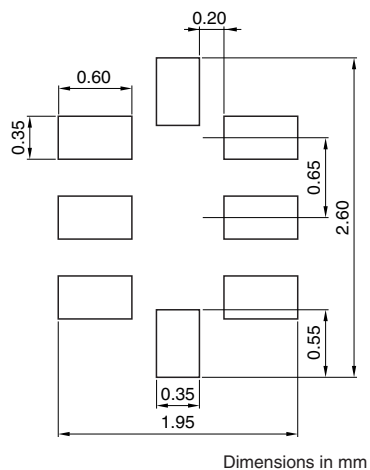
For Bluetooth & 2.4GHz W-LAN

DEA Series DEA202450BT-7112B1

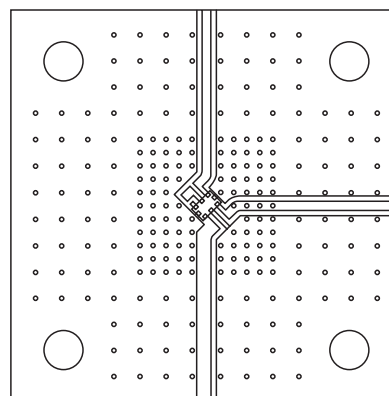
SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERN



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

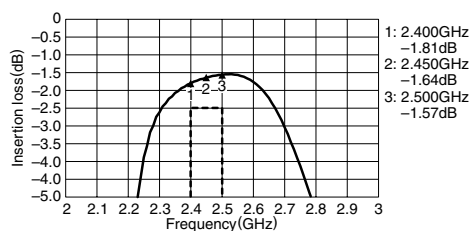
Frequency range(Pass band)	2400MHz	2500MHz	
Insertion loss	[+25°C] —	2.5dB max.	
	[-40 to +85°C]	2.8dB max.	
Single ended port characteristic impedance	50Ω (Nominal)	—	
Balanced port differential characteristics impedance	50+j40Ω(Nominal)	—	
Attenuation	[10 to 915MHz]	41dB	—
	[925 to 960MHz]	34dB	—
	[1570 to 1580MHz]	30dB	—
	[1710 to 1785MHz]	40dB	—
	[1805 to 1880MHz]	26dB	—
	[1850 to 1910MHz]	40dB	—
	[1920 to 1990MHz]	31dB	—
	[4800 to 5000MHz]	25dB	—
	[7200 to 7500MHz]	20dB	—
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	Magnitude	0.6	—
	[4900MHz]	Angle	-45deg.
Temperature range	Operating	-40 to +85°C	—
	Storage	-40 to +85°C	—

• Ta:+25°C

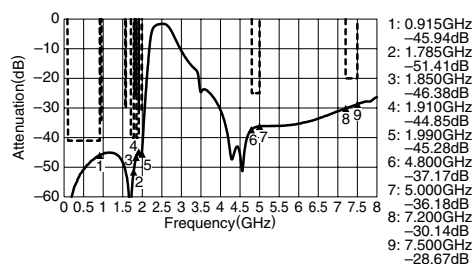
FREQUENCY CHARACTERISTICS

Unbalance 50Ω/Balance 50+j40Ω

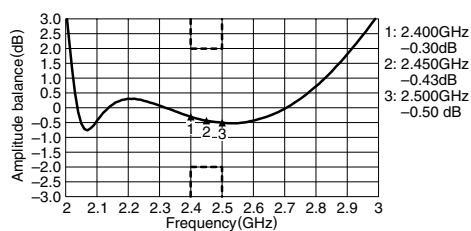
SDS21 INSERTION LOSS



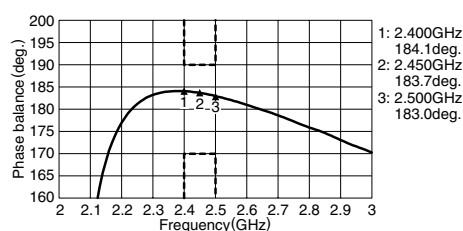
SDS21 ATTENUATION



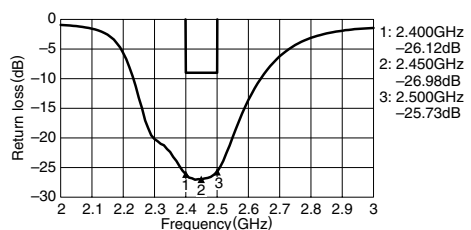
AMPLITUDE BALANCE



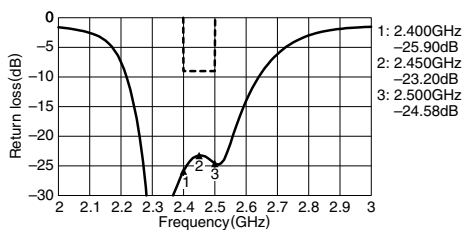
PHASE BALANCE



S11 UNBALANCE RETURN LOSS



SDD22 BALANCE RETURN LOSS

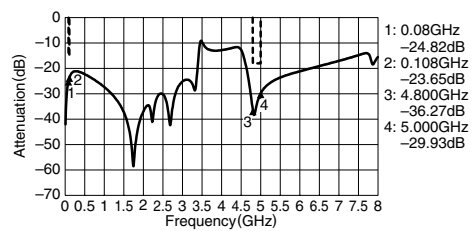


• All specifications are subject to change without notice.

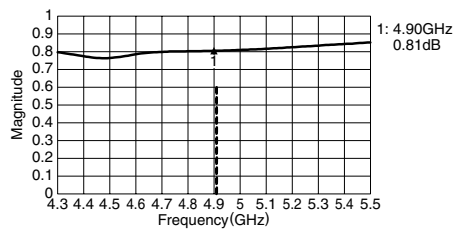
FREQUENCY CHARACTERISTICS

Unbalance 50Ω/Balance 50+j40Ω

SCS21



SCC22 MAGNITUDE



SCC22 ANGLE

