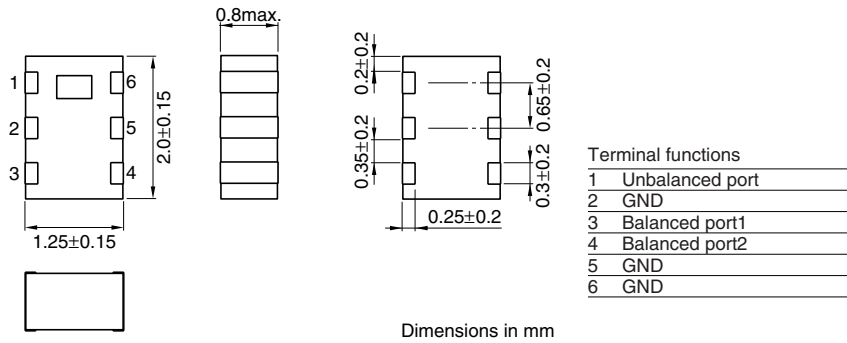


Multilayer Chip Band Pass Filters(Balance Output Type) For ZigBee

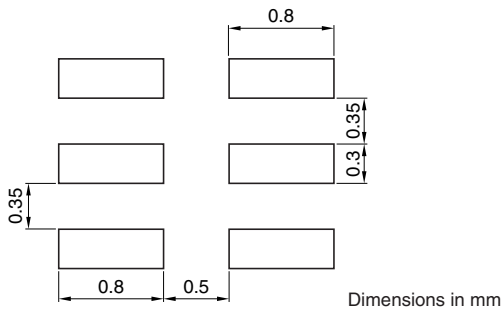
Conformity to RoHS Directive

DEA Series DEA202450BT-7210A1

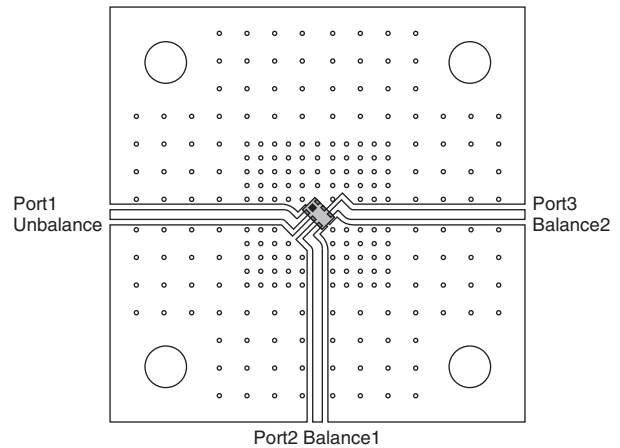
SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERN



EVALUATION BOARD



Line width is designed to match 50Ω characteristic impedance depending on PCB material and thickness.

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

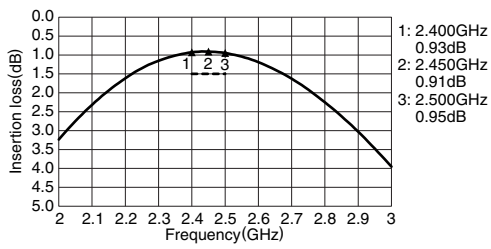
Item			Minimum value	Typical value	Maximum value
Unbalanced port characteristics impedance		(Ω)	50[Nominal]		
Balanced port characteristics impedance		(Ω)	Matched to TI CC253x series		
Insertion loss	[2400 to 2500MHz]	(dB)	—	0.95	1.5
	[4800 to 5000MHz]	(dB)	15	28	—
Differential mode attenuation	[7200 to 7500MHz]	(dB)	20	33	—
		(dB)	10	22	—
In/out return loss		(deg.)	180 $\pm$ 15	183	—
Phase difference at balanced port		(dB)	0 $\pm$ 2	−0.67	—
Amplitude imbalance at balanced port		(°C)	−40	—	+85
Temperature range	Operating	(°C)	−40	—	+85
	Storage	(°C)	−40	—	+85

• Ta: +25°C

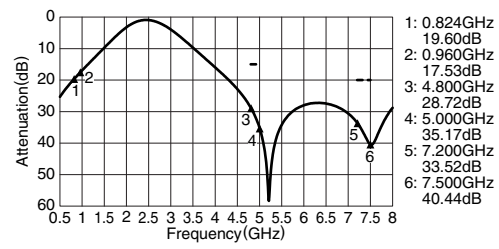
FREQUENCY CHARACTERISTICS

Unbalance 50Ω/Balance Matched to TI CC253x series

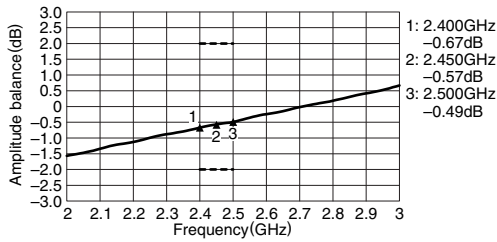
SDS21 INSERTION LOSS



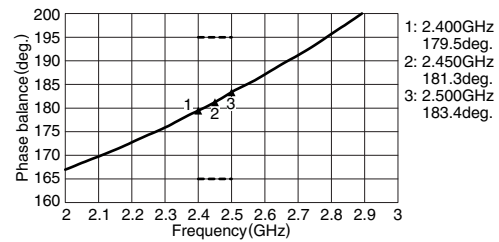
SDS21 ATTENUATION



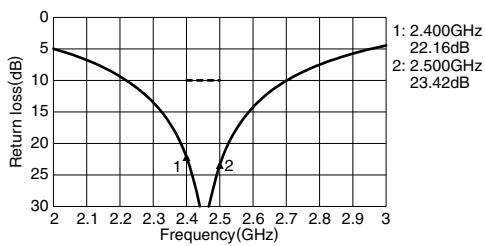
AMPLITUDE BALANCE



PHASE BALANCE



SSS11 UNBALANCE RETURN LOSS



SDD22 BALANCE RETURN LOSS

