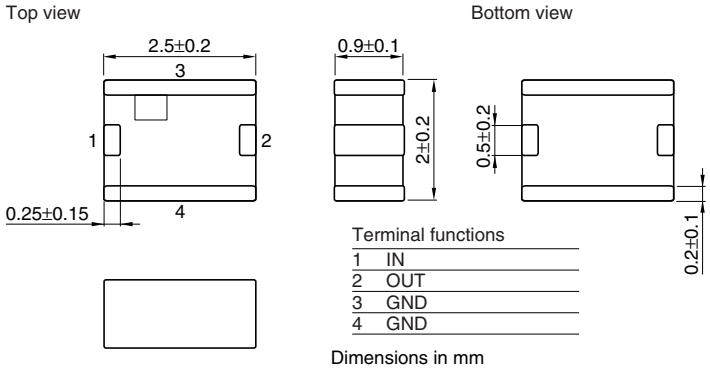
Multilayer Chip Band Pass Filters For Bluetooth & 2.4GHz W-LAN

Conformity to RoHS Directive

DEA Series DEA252450BT-2080B2

SHAPES AND DIMENSIONS

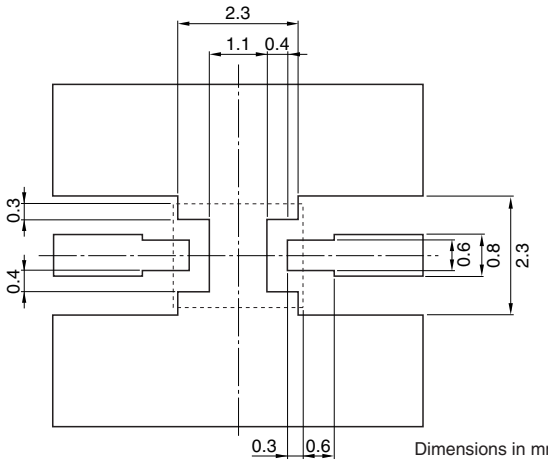


Terminal functions	
1	IN
2	OUT
3	GND
4	GND

Dimensions in mm

RECOMMENDED PC BOARD PATTERNS

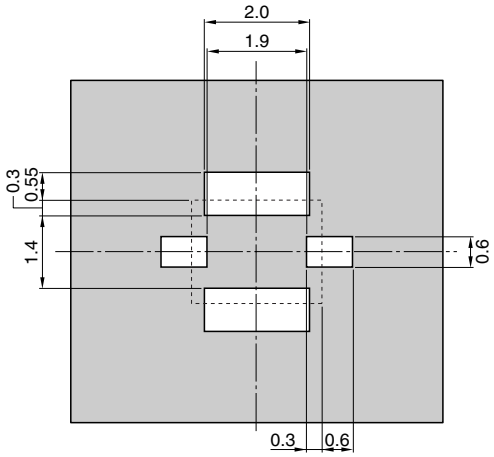
LAND



Dimensions in mm

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

SOLDER RESIST



Solder resist Land

Dimensions in mm

ELECTRICAL CHARACTERISTICS

Item			Minimum value	Typical value	Maximum value
Insertion loss	[2400 to 2500MHz]	(dB)	—	1.56	2.0
Return loss	[2400 to 2500MHz]	(dB)	10.0	24.4	—
Attenuation	[824 to 849MHz]	(dB)	52.0	54.8	—
	[869 to 894MHz]	(dB)	52.0	54.8	—
	[894 to 915MHz]	(dB)	52.0	54.1	—
	[925 to 960MHz]	(dB)	52.0	54.1	—
	[1570 to 1580MHz]	(dB)	54.0	58.2	—
	[1710 to 1785MHz]	(dB)	54.0	68.0	
	[1805 to 1850MHz]	(dB)	54.0	69.2	
	[1850 to 1910MHz]	(dB)	54.0	68.4	
	[1930 to 1990MHz]	(dB)	48.0	51.7	
	[2100MHz]	(dB)	25.0	32.8	
	[4800 to 5000MHz]	(dB)	40.0	52.1	
	[7200 to 7500MHz]	(dB)	21.0	32.7	
Temperature range	Operating	(°C)	–40	—	+85
	Storage	(°C)	–40	—	+85

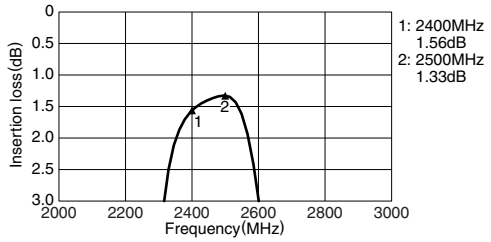
• Ta:+25°C

- 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.

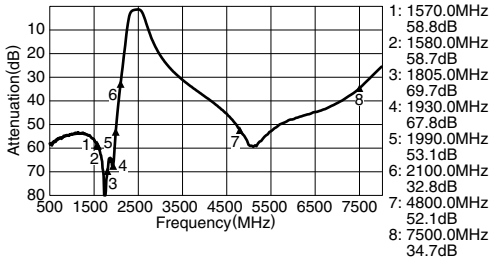
• All specifications are subject to change without notice.

FREQUENCY CHARACTERISTICS

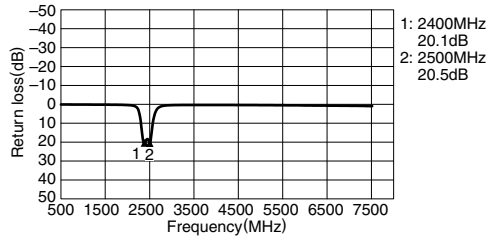
INSERTION LOSS



ATTENUATION



RETURN LOSS



VSWR