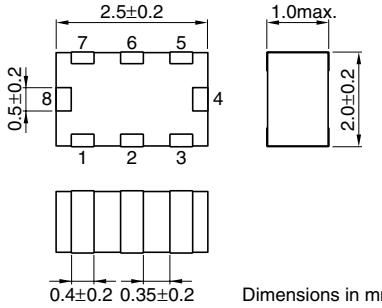
Multilayer Chip Band Pass Filters(Balance Output Type) For Bluetooth & 2.4GHz W-LAN

Conformity to RoHS Directive

DEA Series DEA252450BT-7001B1

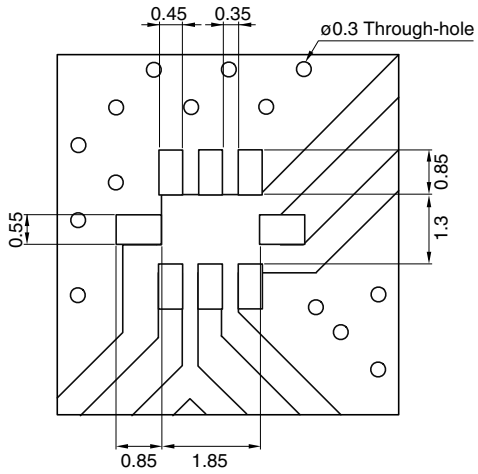
SHAPES AND DIMENSIONS



Dimensions in mm

Terminal functions	
1	Balanced
2	Balanced
3	GND
4	Unbalanced
5	GND
6	GND or DC feed
7	GND
8	GND

RECOMMENDED PC BOARD PATTERNS



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

Dimensions in mm

ELECTRICAL CHARACTERISTICS

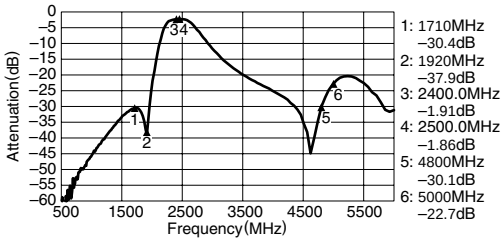
Frequency range		2400 to 2500MHz
Unbalanced impedance		50Ω(Nominal)
Balanced impedance		50Ω(Nominal)
Insertion loss	[+25°C]	2.4dB max.
	[–40 to +85°C]	2.7dB max.
Attenuation	[1710 to 1920MHz]	25dB min.
	[4800 to 5000MHz]	15dB min.
Unbalanced port return loss		10dB min.
Phase difference at balanced port		180±20deg
Amplitude imbalance at balanced port		0±2.0dB
Temperature range	Operating	–40 to +85°C
	Storage	–40 to +85°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.

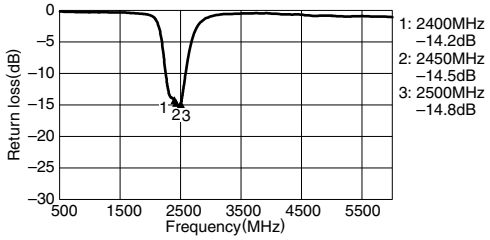
FREQUENCY CHARACTERISTICS

Unbalance 50Ω/Balance 50Ω

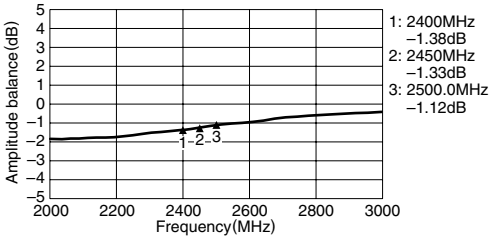
ATTENUATION vs. INSERTION LOSS



UNBALANCED PORT RETURN LOSS



AMPLITUDE BALANCE



PHASE BALANCE