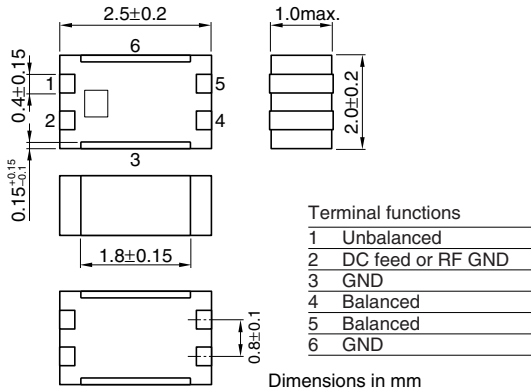


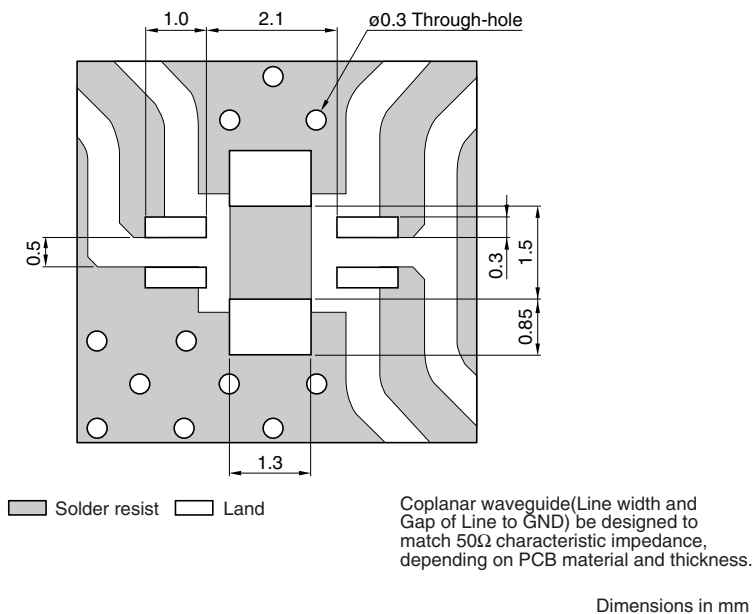
Multilayer Chip Band Pass Filters(Balance Output Type) Conformity to RoHS Directive For Bluetooth & 2.4GHz W-LAN

DEA Series DEA252450BT-7022B1

SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERNS



- **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.

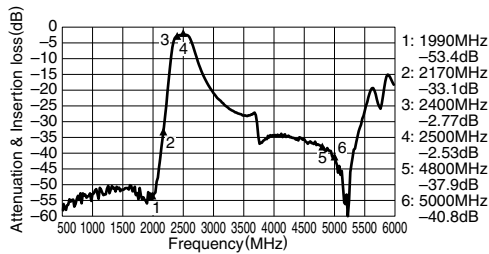
ELECTRICAL CHARACTERISTICS

Item	Typical value	
Frequency range (Pass band)	2400 to 2500MHz	—
Unbalanced impedance	50Ω (Nominal)	—
Balanced impedance	100Ω (Nominal)	—
Unbalanced port return loss	9.5dB min.	—
Insertion loss (Pass band)	[+25°C]	3.0dB max.
	[−40 to +85°C]	3.3dB max.
Ripple (Pass band)		1.0dB max.
		0.2dB
Attenuation	[880 to 960MHz]	48dB min.
	[1710 to 1880MHz]	45dB min.
	[1880 to 1980MHz]	40dB min.
	[2110 to 2170MHz]	25dB min.
	[4800 to 5000MHz]	30dB min.
Amplitude imbalance at balanced port	1.0dB max.	−0.2dB
Phase difference at balanced port	[25°C]	180±8deg.
	[−40 to +85°C]	180±10deg.
Temperature range	Operating	−40 to +85°C
	Storage	−40 to +85°C

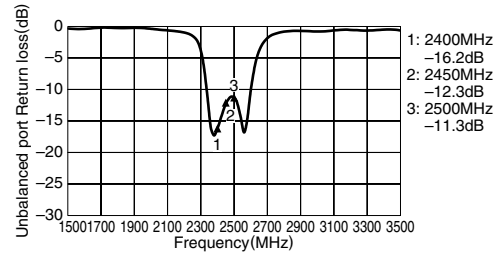
FREQUENCY CHARACTERISTICS

Unbalance 50Ω/Balance 100Ω

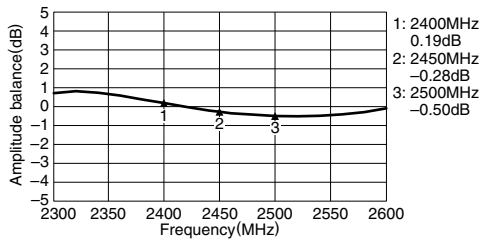
ATTENUATION & INSERTION LOSS



UNBALANCED PORT RETURN LOSS



AMPLITUDE BALANCE



PHASE BALANCE

