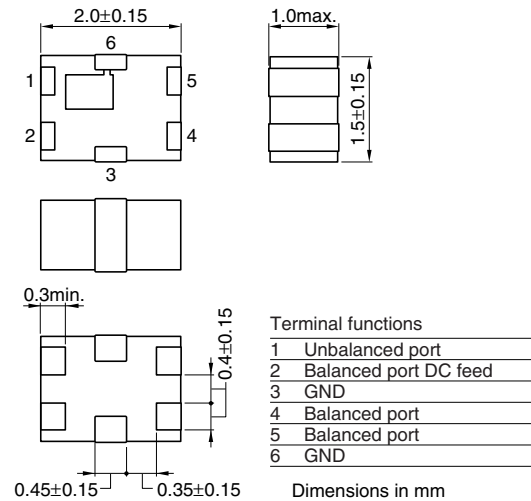


Multilayer Chip Band Pass Filters(Balance Output Type) Conformity to RoHS Directive

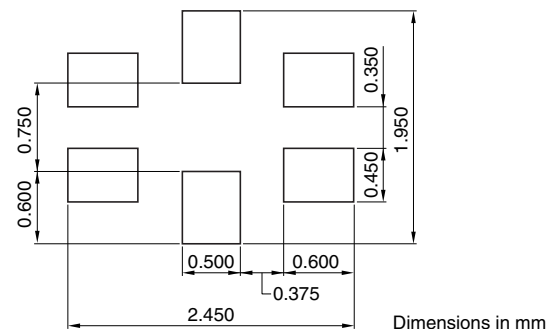
For Bluetooth & 2.4GHz W-LAN

DEA Series DEA212450BT-7031A1

SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERNS



ELECTRICAL CHARACTERISTICS

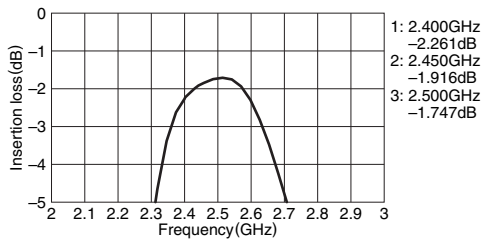
Item	Typical value	
Frequency range (pass band)	2400 to 2500MHz	—
Insertion loss	[+25°C]	2.7dB max.
	[−30 to +85°C]	3.0dB max.
Single ended port characteristic impedance	50Ω (Nominal)	—
Balanced port differential characteristics impedance	50Ω (Nominal)	—
Attenuation	[DC to 915MHz]	34dB min. 40dB
	[1570 to 1580MHz]	30dB min. 36dB
	[1710 to 1850MHz]	33dB min. 37dB
	[1850 to 1910MHz]	37dB min. 42dB
	[1920 to 1990MHz]	27dB min. 32dB
	[2110 to 2170MHz]	10dB min. 14dB
	[4800 to 5000MHz]	15dB min. 18dB
Single ended return loss	[2400 to 2500MHz]	10dB min. —
	[2400 to 2500MHz]	10dB min. —
Phase difference at balanced port	180±15deg.	—
Amplitude imbalance at balanced port	0±1.5dB	—
Temperature range	Operating	−30 to +85°C
	Storage	−30 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.

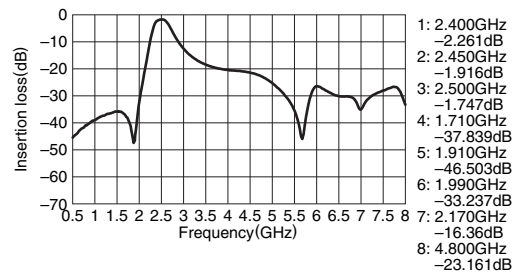
• All specifications are subject to change without notice.

FREQUENCY CHARACTERISTICS

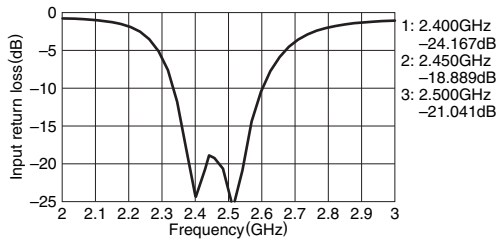
S21 INSERTION LOSS



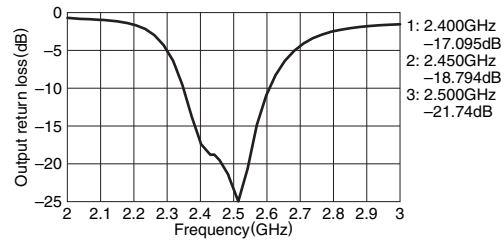
S21 ATTENUATION



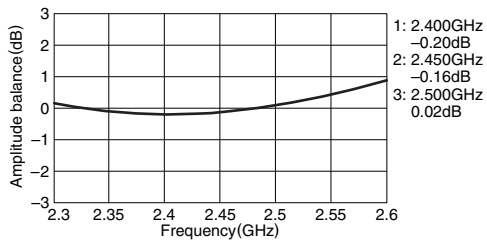
S11 INPUT RETURN LOSS



S22 OUTPUT RETURN LOSS



AMPLITUDE BALANCE



PHASE BALANCE

