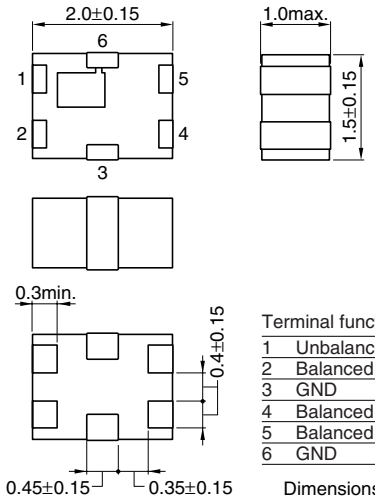
Multilayer Chip Band Pass Filters(Balance Output Type) For Bluetooth & 2.4GHz W-LAN

Conformity to RoHS Directive

DEA Series DEA212450BT-7031A1

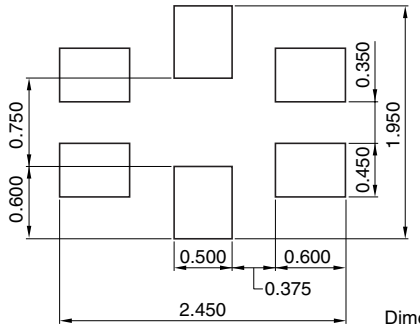
SHAPES AND DIMENSIONS



Terminal functions	
1	Unbalanced port
2	Balanced port DC feed
3	GND
4	Balanced port
5	Balanced port
6	GND

Dimensions in mm

RECOMMENDED PC BOARD PATTERNS



Dimensions in mm

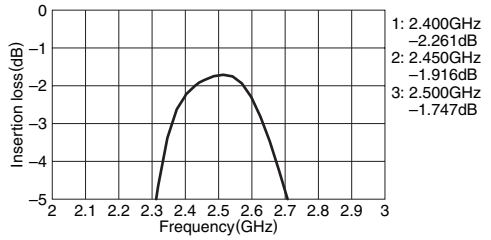
ELECTRICAL CHARACTERISTICS

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
	[7200 to 7500MHz]	20dB min.	40dB
Single ended return loss	[2400 to 2500MHz]	10dB min.	—
Balanced return loss	[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	

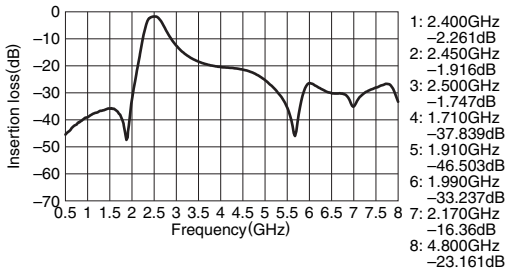
- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

FREQUENCY CHARACTERISTICS

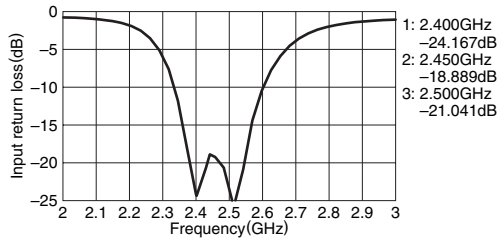
S21 INSERTION LOSS



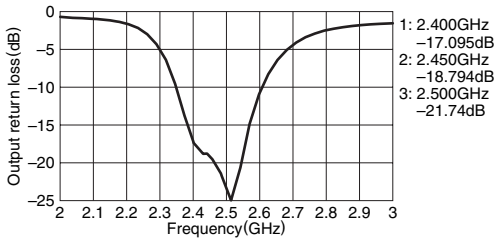
S21 ATTENUATION



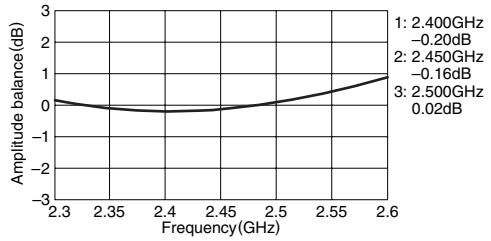
S11 INPUT RETURN LOSS



S22 OUTPUT RETURN LOSS



AMPLITUDE BALANCE



PHASE BALANCE