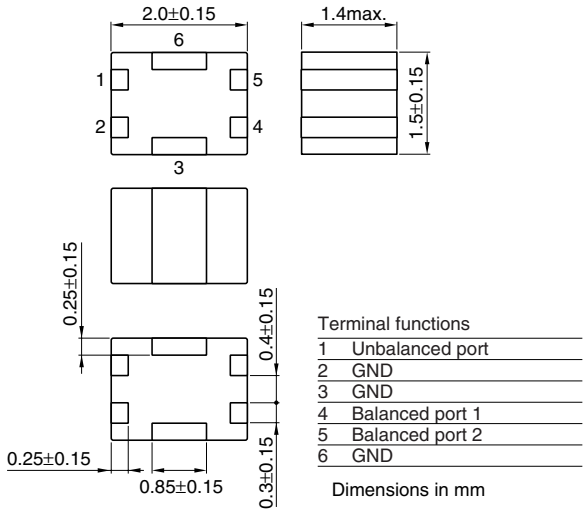
Multilayer Chip Band Pass Filters(Balance Output Type) Conformity to RoHS Directive
For Bluetooth & 2.4GHz W-LAN

DEA Series DEA215425BT-7075C2

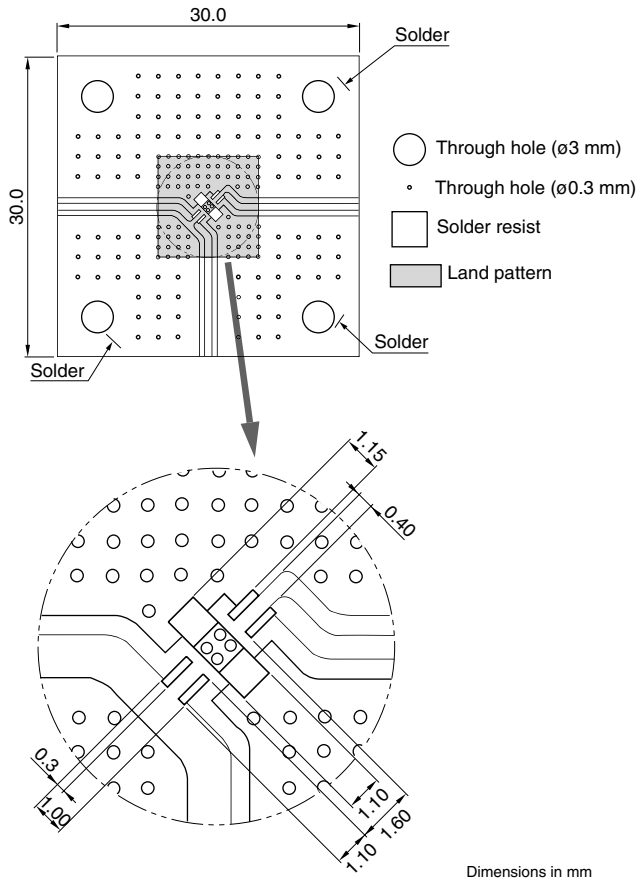
SHAPES AND DIMENSIONS



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

Dimensions in mm

RECOMMENDED PC BOARD PATTERNS



Dimensions in mm

- 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.

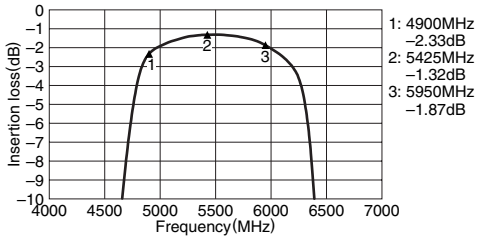
ELECTRICAL CHARACTERISTICS

Item			Typical value
Frequency range(pass band)		4900 to 5950MHz	—
Unbalanced impedance		50Ω(Nominal)	—
Balanced impedance		100Ω(Nominal)	—
Insertion loss	[+25°C]	2.8dB max.	2.3dB
	[–45 to +85°C]	3.1dB max.	—
Attenuation	[DC to 4000MHz]	30dB min.	40dB
	[6500 to 7000MHz]	12dB min.	17dB
	[7200 to 8000MHz]	20dB min.	25dB
	[8000 to 10000MHz]	15dB min.	24dB
	[10000 to 18000MHz]	10dB min.	20dB
Unbalanced port return loss	[4900 to 5950MHz]	9.54dB min.	13dB
Phase difference at balanced port		180±15deg.	184deg.
Amplitude imbalance at balanced port		0±1.5dB	–0.6dB
Temperature range	Operating	–40 to +85°C	
	Storage	–40 to +85°C	

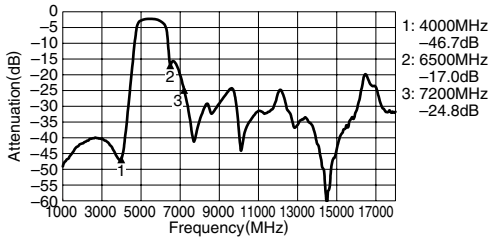
FREQUENCY CHARACTERISTICS

Unbalance 50Ω/Balance 100Ω

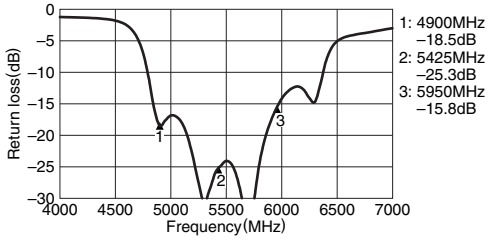
INSERTION LOSS



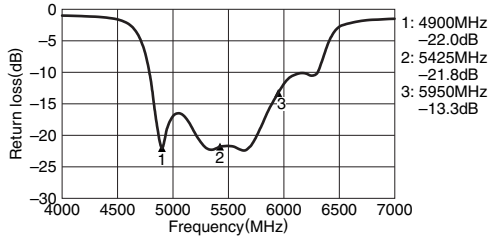
ATTENUATION



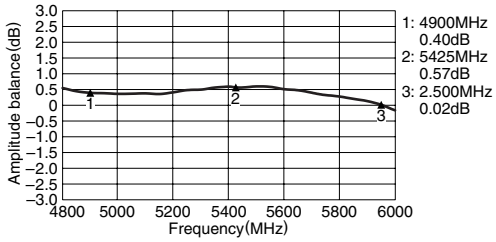
UNBALANCED PORT RETURN LOSS



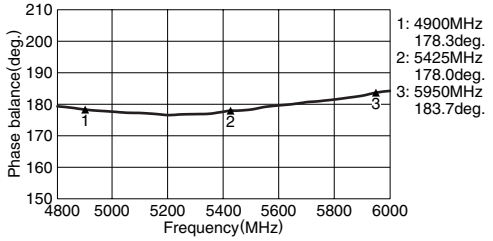
BALANCED PORT RETURN LOSS



AMPLITUDE BALANCE



PHASE BALANCE



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