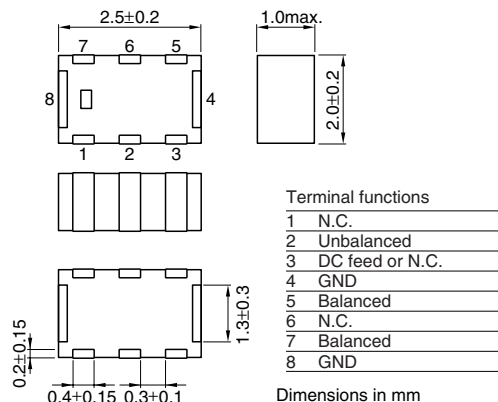


# Multilayer Chip Band Pass Filters(Balance Output Type) For Bluetooth & 2.4GHz W-LAN

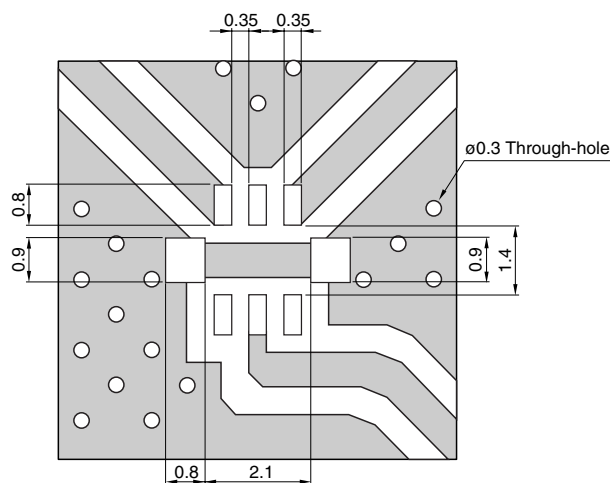
Conformity to RoHS Directive

DEA Series DEA252450BT-7012D1

## SHAPES AND DIMENSIONS



## RECOMMENDED PC BOARD PATTERNS



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

Dimensions in mm

## ELECTRICAL CHARACTERISTICS

Item	Typical value	
Frequency range (Pass band)	2400 to 2500MHz	—
Unbalanced impedance	50Ω(Nominal)	—
Balanced impedance	100Ω(Nominal)	—
Insertion loss	[+25°C]	1.9dB max.
	[-40 to +85°C]	2.2dB max.
Attenuation	[880 to 960MHz]	40dB min.
	[1710 to 1910MHz]	32dB min.
	[4800 to 5000MHz]	30dB min.
Unbalanced port return loss	10dB min.	14dB
Phase difference at balanced port	180±12deg	188deg
Amplitude imbalance at balanced port	0±1.0dB	0dB
Temperature range	Operating	-40 to +85°C
	Storage	-40 to +85°C

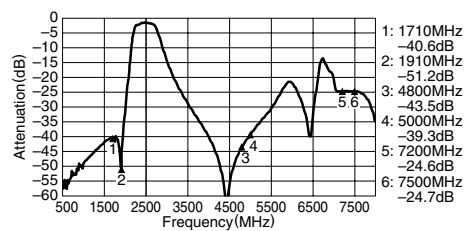
- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

- All specifications are subject to change without notice.

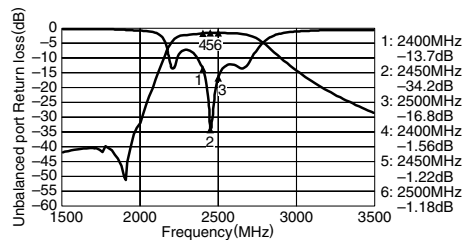
### FREQUENCY CHARACTERISTICS

Unbalance 50Ω/Balance 100Ω

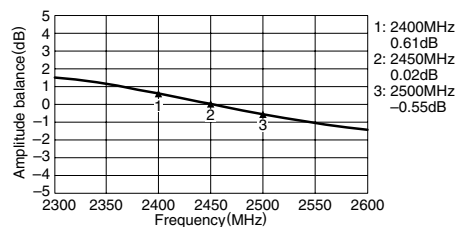
#### ATTENUATION



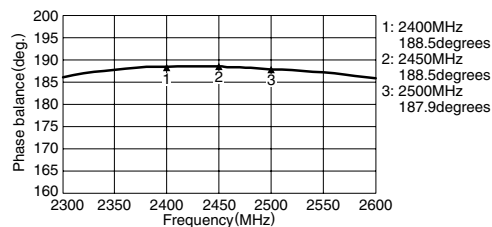
#### UNBALANCED PORT RETURN LOSS



#### AMPLITUDE BALANCE



#### PHASE BALANCE



• All specifications are subject to change without notice.