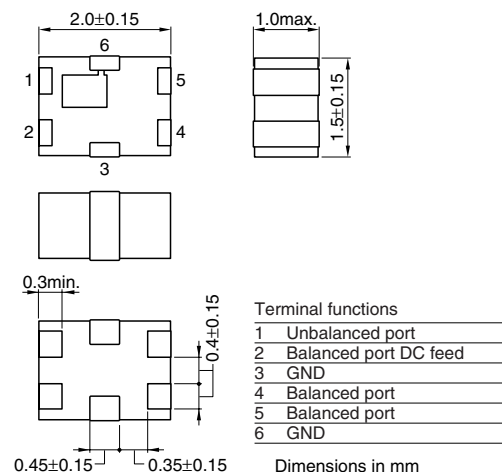


# Multilayer Chip Band Pass Filters(Balance Output Type) Conformity to RoHS Directive

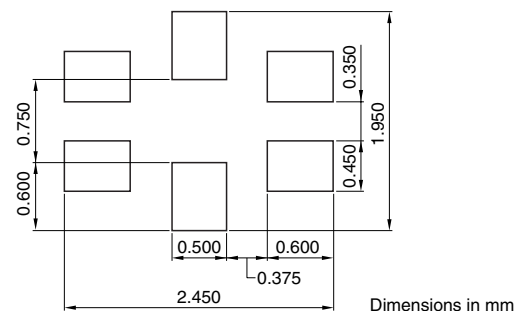
## For Bluetooth & 2.4GHz W-LAN

DEA Series DEA212450BT-7031A1

### SHAPES AND DIMENSIONS



### RECOMMENDED PC BOARD PATTERNS



### ELECTRICAL CHARACTERISTICS

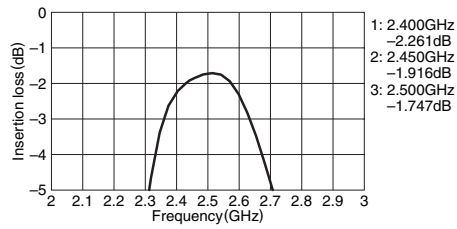
Item	Typical value		
Frequency range (pass band)	2400 to 2500MHz	—	
Insertion loss	[+25°C]	2.7dB max.	
	[-30 to +85°C]	3.0dB max.	
Single ended port characteristic impedance	50Ω(Nominal)	—	
Balanced port differential characteristics impedance	50Ω(Nominal)	—	
Attenuation	[DC to 915MHz]	34dB min.	40dB
	[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.	—
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.

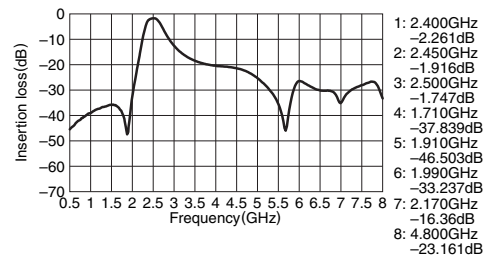
- All specifications are subject to change without notice.

### FREQUENCY CHARACTERISTICS

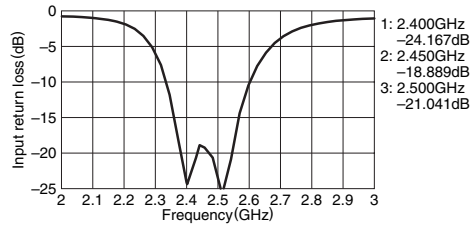
#### S21 INSERTION LOSS



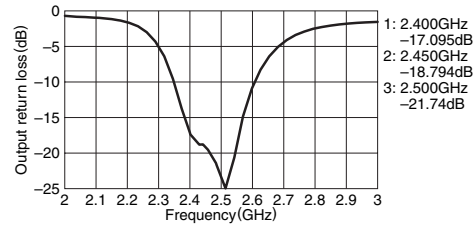
#### S21 ATTENUATION



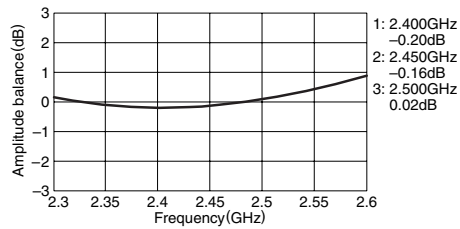
#### S11 INPUT RETURN LOSS



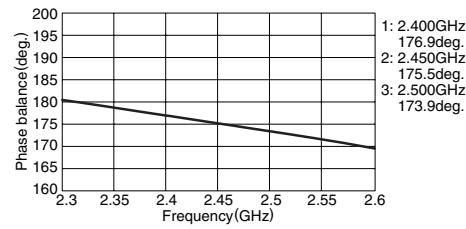
#### S22 OUTPUT RETURN LOSS



#### AMPLITUDE BALANCE



#### PHASE BALANCE



• All specifications are subject to change without notice.