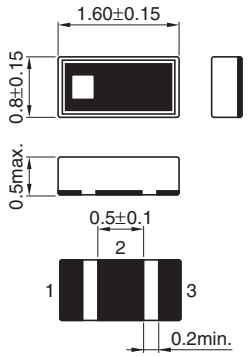
# Multilayer Chip Band Pass Filters For 2.4GHz W-LAN/Bluetooth

**Conformity to RoHS Directive**

## DEA Series DEA162450BT-2139A1

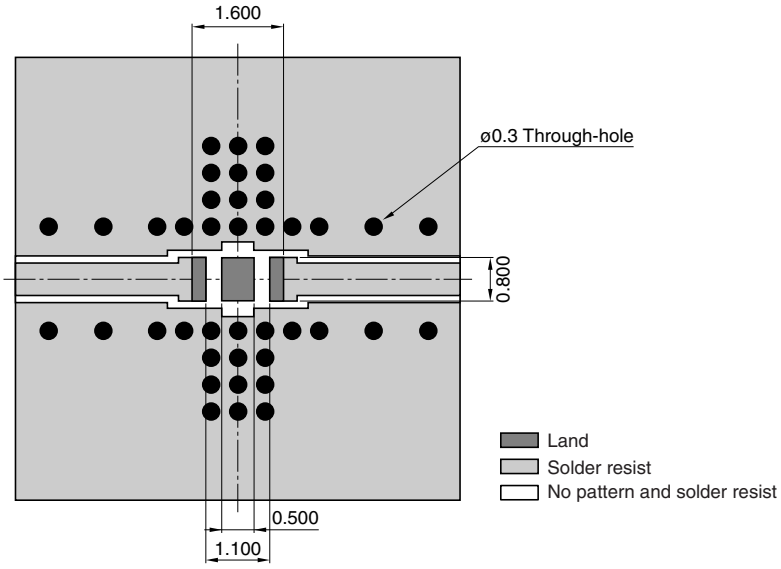
### SHAPES AND DIMENSIONS




| Terminal functions | |
|---|---|
| 1 | IN |
| 2 | GND |
| 3 | OUT |

Dimensions in mm

### RECOMMENDED PC BOARD PATTERNS




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

Dimensions in mm

### ELECTRICAL CHARACTERISTICS

| Item | | | Typical value |
|---|---|---|---|
| Frequency range(Pass band) | | 2400 to 2500MHz | 2400 to 2500MHz |
| Insertion loss | [+25°C] | 3.0dB max. | 2.6dB |
| | [–40 to +85°C] | — | — |
| VSWR | [2400 to 2500MHz] | 2.32 max. | 1.5 |
| Attenuation | [869 to 894MHz] | 34dB min. | 42dB |
| | [925 to 960MHz] | 33dB min. | 41dB |
| | [1570 to 1580MHz] | 30dB min. | 39dB |
| | [1710 to 1785MHz] | 30dB min. | 42dB |
| | [1805 to 1850MHz] | 30dB min. | 45dB |
| | [1930 to 1990MHz] | 30dB min. | 41dB |
| | [2110 to 2170MHz] | 25dB min. | 30dB |
| Temperature range | Operating | –40 to +85°C | |
| | Storage | –40 to +85°C | |

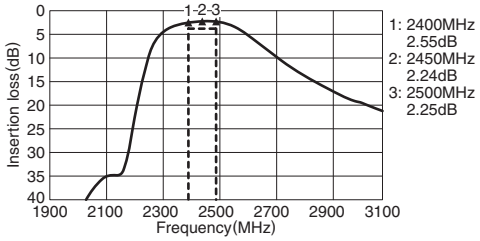
• Ta:+25°C

- 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.

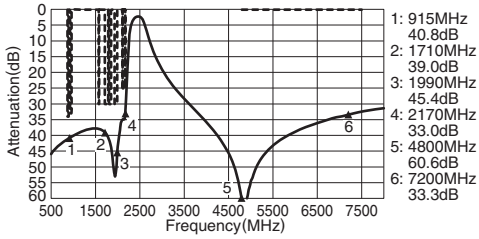
• All specifications are subject to change without notice.

## FREQUENCY CHARACTERISTICS

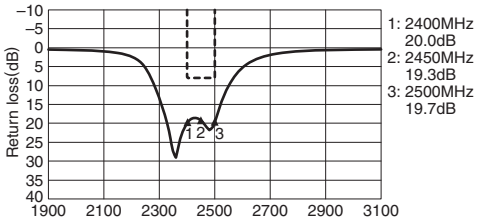
### INSERTION LOSS




### ATTENUATION




### RETURN LOSS




### VSWR

