# Thin-Film Band Pass Filters

## For 5.0GHz W-LAN

## TFSB Series

**Type:** **TFSB10055375-1103A1 (1.0×0.5×0.3mm)**

Issue date: August 2014

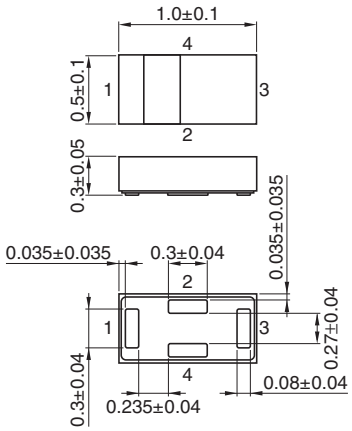
- All specifications are subject to change without notice.
- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2011/65/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

# Thin-Film Band Pass Filters For 5.0GHz W-LAN

**Conformity to RoHS Directive**

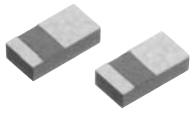
## TFSB Series TFSB10055375-1103A1

### SHAPES AND DIMENSIONS

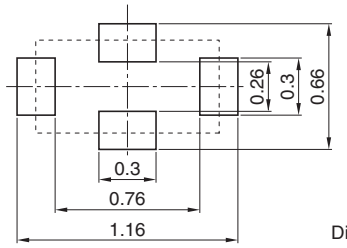



| Terminal functions | |
|---|---|
| 1 | IN |
| 2 | GND |
| 3 | OUT |
| 4 | GND |

Dimensions in mm



### RECOMMENDED PC BOARD PATTERNS




Dimensions in mm

### ELECTRICAL CHARACTERISTICS

| Item | | | Minimum value | Typical value | Maximum value |
|---|---|---|---|---|---|
| Insertion loss | [4900 to 5850MHz] | (dB) | — | 0.9 | 1.5 |
| Return loss | [4900 to 5850MHz] | (dB) | 10 | 14.7 | — |
| Attenuation | [824 to 1000MHz] | (dB) | 40 | 47.3 | — |
| | [1250 to 1500MHz] | (dB) | 40 | 47.7 | — |
| | [1750 to 1910MHz] | (dB) | 40 | 54.4 | — |
| | [9800 to 11700MHz] | (dB) | 15 | 21.2 | — |
| Temperature range | Operating | (°C) | –40 | — | +85 |
| | Storage | (°C) | –40 | — | +85 |

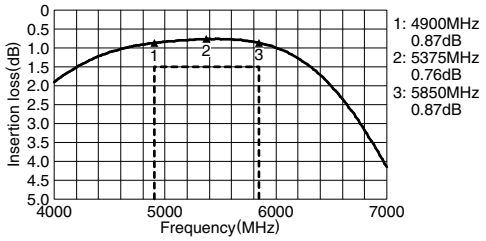
• Ta:+25°C

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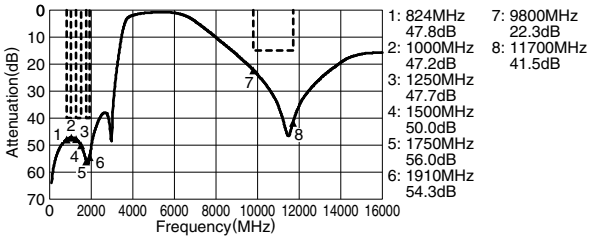
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## FREQUENCY CHARACTERISTICS

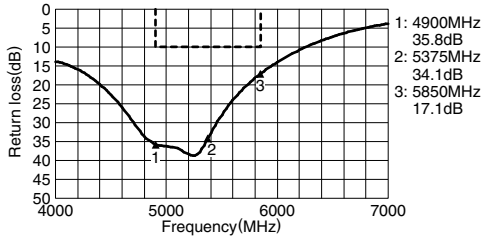
### INSERTION LOSS S21




### ATTENUATION S21




### RETURN LOSS S11




### RETURN LOSS S22

