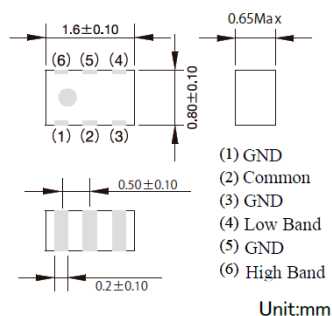


Multilayer Ceramic Devices (Diplexers)

FI168P245030-T



■ Features

- Item Summary
Diplexer, 1.6x0.8x0.65mm
for Bluetooth/W-LAN
- Lifecycle Stage
Mass Production (Preferred)
- Standard packaging quantity (minimum)
Taping Paper 5000pcs

■ Products characteristics table

| | |
|-------------------------------|---|
| System | Bluetooth/W-LAN |
| Frequency1 | Low band |
| Passband Frequency1 (f1) | 1558 to 1610/2400 to 2500 MHz |
| Insertion Loss2 (max)(in f1) | 0.5 dB at 1558 to 1610MHz (-40 to +85 °C) |
| Insertion Loss4 (max)(in f1) | 0.6 dB at 2400 to 2500MHz (-40 to +85 °C) |
| VSWR1 (max)(in f1) | 2 at 1558 to 1610MHz |
| VSWR2 (max)(in f1) | 2 at 2400 to 2500MHz |
| Attenuation1 (min)(f1) | 24 dB at 4800 to 4900MHz |
| Attenuation2 (min)(f1) | 26 dB at 4900 to 6000MHz |
| Frequency2 | High band |
| Passband Frequency2 (f2) | 4900 to 5950 MHz |
| Insertion Loss2 (max)(in f2) | 0.8 dB at 4900 to 5950MHz (-40 to +85 °C) |
| VSWR1 (max)(in f2) | 2 at 4900 to 5950MHz |
| Attenuation1 (min)(f2) | 32 dB at 30 to 2700MHz |
| Input Impedance | 50 Ω |
| Output Impedance | 50 Ω |
| Operating Temp. Range | -40 to +85 °C |
| RoHS Compliance (10 subst.) | Yes |
| REACH Compliance (209 subst.) | Yes |
| Halogen Free | Yes |
| Soldering | Reflow |

■ External Dimensions

| | |
|-------------|---------------|
| Dimension L | 1.6 ± 0.10 mm |
| Dimension W | 0.8 ± 0.10 mm |
| Dimension T | Max 0.65 mm |

2021.06.20

The data is reference only. Electrical characteristics vary depending on environment or measurement condition.
TAIYO YUDEN reserves the right to make change to the data at any time without notice.
Before making final selection, please check product specification.

Please read this notice before using the TAIYO YUDEN products.



REMINDERS

- Please conduct validation and verification of our products in actual condition of mounting and operating environment before using our products.
- The product listed in this spec sheet is intended for use in general electronic equipment (e.g., AV equipment, OA equipment, home electric appliances, office equipment, information and communication equipment including, without limitation, mobile phone, and PC). Please be sure to contact TAIYO YUDEN for further information before using the products for any equipment which may directly cause loss of human life or bodily injury (e.g., transportation equipment including, without limitation, automotive powertrain control system, train control system, and ship control system, traffic signal equipment, disaster prevention equipment, medical equipment classified as Class I, II or III by IMDRF, highly public information network equipment including, without limitation, telephone exchange, and base station).
Please do not incorporate our products into any equipment requiring high levels of safety and/or reliability (e.g., aerospace equipment, aviation equipment, medical equipment classified as Class IV by IMDRF, nuclear control equipment, undersea equipment, military equipment).
When our products are used even for high safety and/or reliability-required devices or circuits of general electronic equipment, it is strongly recommended to perform a thorough safety evaluation prior to use of our products and to install a protection circuit as necessary.
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