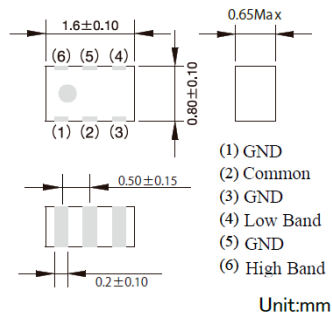


## Multilayer Ceramic Devices (Diplexers)

## FI168P245030-T



## ■ Features

- Item Summary  
Diplexer, 1.6x0.8x0.65mm  
for Bluetooth/W-LAN
- Lifecycle Stage  
Mass Production
- Standard packaging quantity (minimum)  
Taping Papered 4000

## ■ 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
RoHS2 Compliance (10 subst.)	Yes
REACH Compliance (181 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

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.

2018.03.10

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.
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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.  
Please note that unless you obtain prior written consent of TAIYO YUDEN, TAIYO YUDEN shall not be in any way responsible for any damages incurred by you or third parties arising from use of the product listed in this spec sheet for any equipment requiring inquiry to TAIYO YUDEN or prohibited for use by TAIYO YUDEN as described above.
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