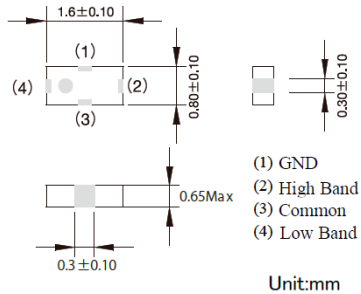


## Multilayer Ceramic Devices (Diplexers)

## FI168P157519-T



## ■ Features

- Item Summary  
Diplexer, 1.6x0.8x0.65mm  
for W-CDMA/CDMA/GSM/ISM900/Bluetooth/W-LAN/GPS
- Lifecycle Stage  
Mass Production
- Standard packaging quantity (minimum)  
Taping Papered 4000

## ■ Products characteristics table

System	W-CDMA/CDMA/GSM/ISM900 /Bluetooth/W-LAN/GPS
Frequency1	Low band
Passband Frequency1 (f1)	824 to 960/1166 to 1299 /1525 to 1616 MHz
Insertion Loss2 (max)(in f1)	0.6 dB at 824 to 960MHz (-40 to +85 °C)
Insertion Loss4 (max)(in f1)	0.5 dB at 1166 to 1299MHz (-40 to +85 °C)
Insertion Loss6 (max)(in f1)	0.6 dB at 1525 to 1616MHz (-40 to +85 °C)
VSWR1 (max)(in f1)	2 at 824 to 960MHz
VSWR2 (max)(in f1)	2 at 1166 to 1299MHz
VSWR3 (max)(in f1)	2 at 1525 to 1616MHz
Attenuation1 (min)(f1)	13 dB at 2400 to 2501MHz
Frequency2	High band
Passband Frequency2 (f2)	2400 to 2501 MHz
Insertion Loss2 (max)(in f2)	0.7 dB at 2400 to 2501MHz (-40 to +85 °C)
VSWR1 (max)(in f2)	2 at 2400 to 2501MHz
Attenuation1 (min)(f2)	12 dB at 824 to 960MHz
Attenuation2 (min)(f2)	12 dB at 1166 to 1299MHz
Attenuation3 (min)(f2)	19 dB at 1525 to 1616MHz
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

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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.
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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.  
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