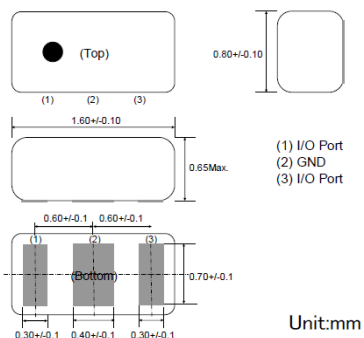


## Multilayer Ceramic Devices

## FI168B2002H7-T



Unit:mm

## ■ Features

- Item Summary  
Band Pass Type, 1.6x0.8x0.65mm  
for LTE-M/NB-IOT
- Lifecycle Stage  
New PN available
- Standard packaging quantity (minimum)  
Taping Paper 5000pcs

## ■ Products characteristics table

System	LTE-M/NB-IOT
Passband Frequency1 (f1)	1805 to 2200 MHz
Insertion Loss2 (max)(in f1)	1.3 dB at 1805 to 2000MHz (-40 to +85 °C)
Insertion Loss4 (max)(in f1)	1.6 dB at 2000 to 2170MHz (-40 to +85 °C)
Insertion Loss6 (max)(in f1)	1.8 dB at 2170 to 2200MHz (-40 to +85 °C)
VSWR1 (max)(in f1)	1.8 at 1805 to 2170MHz
VSWR2 (max)(in f1)	2 at 2170 to 2200MHz
Attenuation1 (min)(f1)	16 dB at 600 to 735MHz
Attenuation2 (min)(f1)	10 dB at 900 to 1100MHz
Attenuation3 (min)(f1)	5 dB at 2705 to 3300MHz
Attenuation4 (min)(f1)	22 dB at 3610 to 5415MHz
Attenuation5 (min)(f1)	35 dB at 5415 to 6600MHz
Attenuation6 (min)(f1)	20 dB at 6600 to 12750MHz
Input Impedance	50 Ω
Output Impedance	50 Ω
Operating Temp. Range	-40 to +85 °C
RoHS Compliance (10 subst.)	Yes
REACH Compliance (223 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.

2022.06.09

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.  
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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