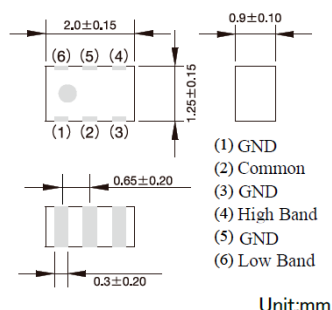


## Multilayer Ceramic Devices (Diplexers)

## FI212P082931-T



## ■ Features

- Item Summary  
Diplexer, 2.0x1.25x0.9mm  
for W-CDMA/CDMA/GSM/LTE/ISM900
- Lifecycle Stage  
Mass Production (Preferred)
- Standard packaging quantity (minimum)  
Taping Embossed 3000pcs

## ■ Products characteristics table

|                               |   |
|-------------------------------|---|
| System                        | W-CDMA/CDMA/GSM/LTE /ISM900               |
| Frequency1                    | Low band                                  |
| Passband Frequency1 (f1)      | 698 to 960 MHz                            |
| Insertion Loss2 (max)(in f1)  | 0.6 dB at 698 to 894MHz (-40 to +85 °C)   |
| Insertion Loss4 (max)(in f1)  | 0.8 dB at 880 to 960MHz (-40 to +85 °C)   |
| VSWR1 (max)(in f1)            | 2 at 698 to 894MHz                        |
| VSWR2 (max)(in f1)            | 2 at 880 to 960MHz                        |
| Attenuation1 (min)(f1)        | 13 dB at 1420 to 2690MHz                  |
| Frequency2                    | High band                                 |
| Passband Frequency2 (f2)      | 1420 to 2690 MHz                          |
| Insertion Loss2 (max)(in f2)  | 0.8 dB at 1420 to 1520MHz (-40 to +85 °C) |
| Insertion Loss4 (max)(in f2)  | 0.6 dB at 1560 to 1610MHz (-40 to +85 °C) |
| Insertion Loss6 (max)(in f2)  | 0.6 dB at 1710 to 2170MHz (-40 to +85 °C) |
| Insertion Loss8 (max)(in f2)  | 0.6 dB at 2300 to 2690MHz (-40 to +85 °C) |
| VSWR1 (max)(in f2)            | 2 at 1420 to 2690MHz                      |
| Attenuation1 (min)(f2)        | 13 dB at 698 to 960MHz                    |
| 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 | 2.0 ± 0.15 mm  |
| Dimension W | 1.25 ± 0.15 mm |
| Dimension T | 0.9 ± 0.10 mm  |

2021.07.01

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

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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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[>>Taiyo Yuden\(太阳诱电\)](#)