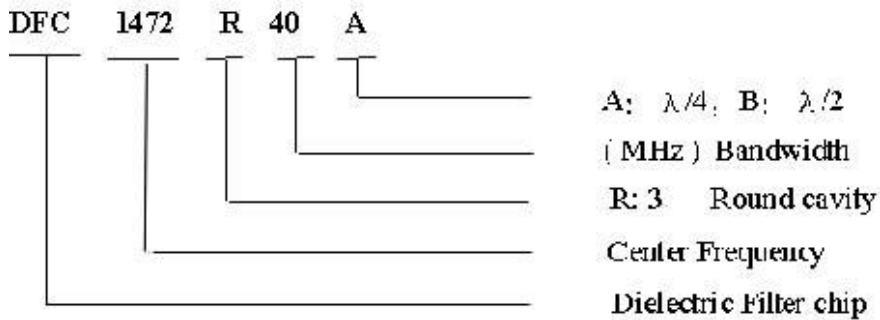


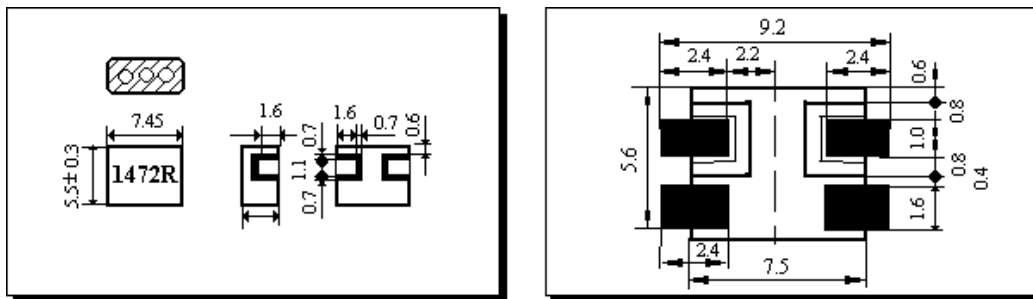
● INTRODUCTION

Microwave Dielectric Duplexer filter series are designed to be used in mobile & cordless phones with low insertion loss and high attenuation as well as chip design , which can simplify your complex tuning and circuit design .

● Part Number



● Dimension Unit mm



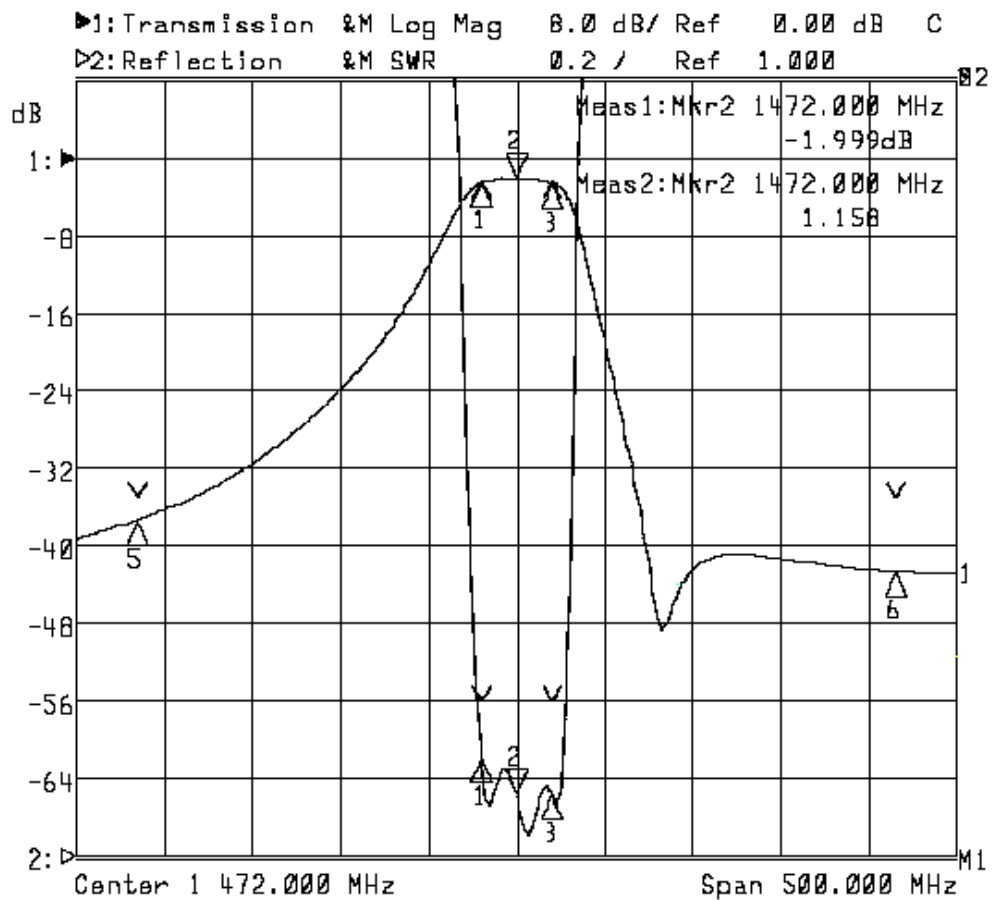
● Structure and Material

| No. | Part Name | Structure and material |
|-----|---------------------|------------------------|
| 4.1 | Filter | Dielectric material |
| 4.2 | Number of pole | 2pole |
| 4.3 | In/output Terminals | AgPlated |
| 4.4 | Ground Base | AgPlated |

● Electrical Characteristics

| No. | Item | Specifications | Post Environmental Tolerance |
|-----|------------------------------|--------------------|------------------------------|
| 5.1 | Center frequency (fo) | 1472.00MHz | -/+2MHz |
| 5.2 | Insertion loss | 3.0 dB | -/+0.5 dB |
| 5.3 | Bandwidth | fo-/+20.0MHz | -/+0.5 MHz |
| 5.4 | Ripple (in BW) | 1.0 dB Max. | -/+0.5 dB |
| 5.5 | V.S.W.R (in BW) | 2.0 Max. | -/+0.5 |
| 5.6 | Attenuation (Absolute value) | 34 (fo -/+ 215MHz) | -/+2 dB |
| 5.7 | Permissible Inputpower (Max) | 1 Watt | |
| 5.8 | In/output impedanc | 50 | |

● Characteristic curve



- **Environmental specifications**

| | |
|---|----------------|
| Post Environmental Tolerance (Refer to the table 2) | |
| Temperature range | 25-/+3 °C |
| Relative Humidity range | 55~75%RH |
| Operating Temperature range | -10 °C ~+70 °C |
| Storage Temperature range | -25 °C ~+85 °C |

- **Moisture Proof**

The device should satisfy the electrical characteristics specified in paragraph 5.1~5.6 after exposed to the temperature 40-/+2 °C and the relative humidity 90~95% RH for 96 hours and 1~2 hours recovery time under normal condition.

- **Vibration Resist**

The device should satisfy the electrical characteristics specified in paragraph 5.1~5.6 after applied to the vibration of 10 to 55Hz with amplitude of 1.5mm for 2 hours each in X, Y and Z directions.

- **Drop Shock**

The device should satisfy the electrical characteristics specified in paragraph 5.1~5.6 after dropping onto the hard wooden board from the height of 30cm for 3 times each facet of the 3 dimensions of the device.

- **High Temperature Endurance**

The device should satisfy the electrical characteristics specified in paragraph 5.1~5.6 after exposed to temperature 80-/+5 °C for 24-/+2 hours and 1~2 hours recovery time under normal temperature.

- **Low Temperature Endurance**

The device should also satisfy the electrical characteristics specified in paragraph 5.1~5.6 after exposed to the temperature -25 °C-/+3 °C for 24-/+2 hours and to 2 hours recovery time under normal temperature.

- **Temperature Cycle Test**

The device should also satisfy the electrical characteristics specified in paragraph 5.1~5.6 after exposed to the low temperature -25 °C and high temperature +85 °C for 30-/+2 min each by 5 cycles and 1 to 2 hours recovery time under normal temperature.

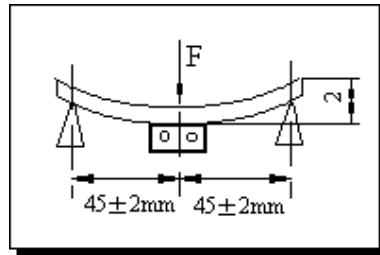
- **Solder Heat Proof**

The device should be satisfied after preheating at 120 °C ~150 °C for 60 seconds and dipping in soldering Sn at 260 °C +10 °C for 10-/+0.5 seconds.

● Tensile Strength of Terminal

The device should not be broken after tensile force of 1.0kg is slowly applied to pull a lead pin of the fixed device in the lead axis direction for 10-/+1 seconds.

● Bending Resist Test



Weld the product to the center part of the PCB with the thickness 1.6-/+0.2mm as the illustration shows, and keep exerting force arrow-ward on it at speed of : 1mm/S , and hold for 5-/+1S at the position of 2mm bending distance , so far , any peeling off of the product metal coating should not be detected .

● Reflow Soldering Standard Condition

