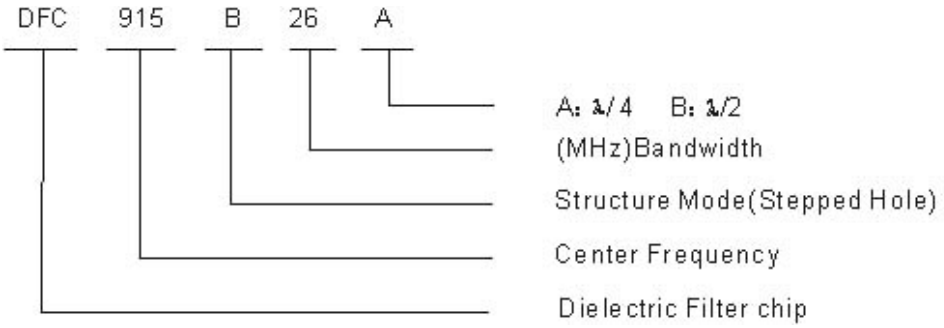
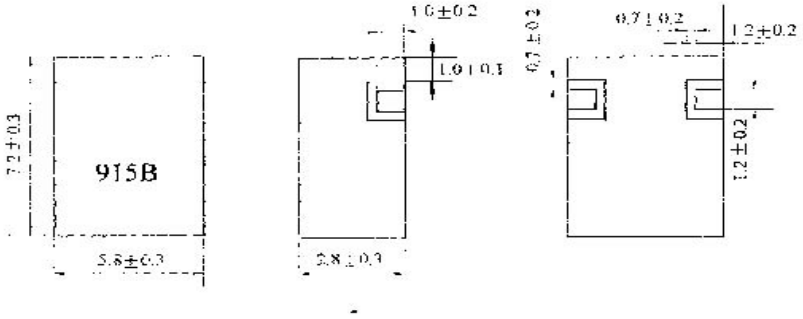
INTRODUCTION

Microwave Dielectric Duplexer filter series is designed to be used RF transmitter and receiving with low insertion loss and higher attenuation and chip design , which could simplify your complex tunning and circuit design..

Part Number



Dimension(Unit:mm)



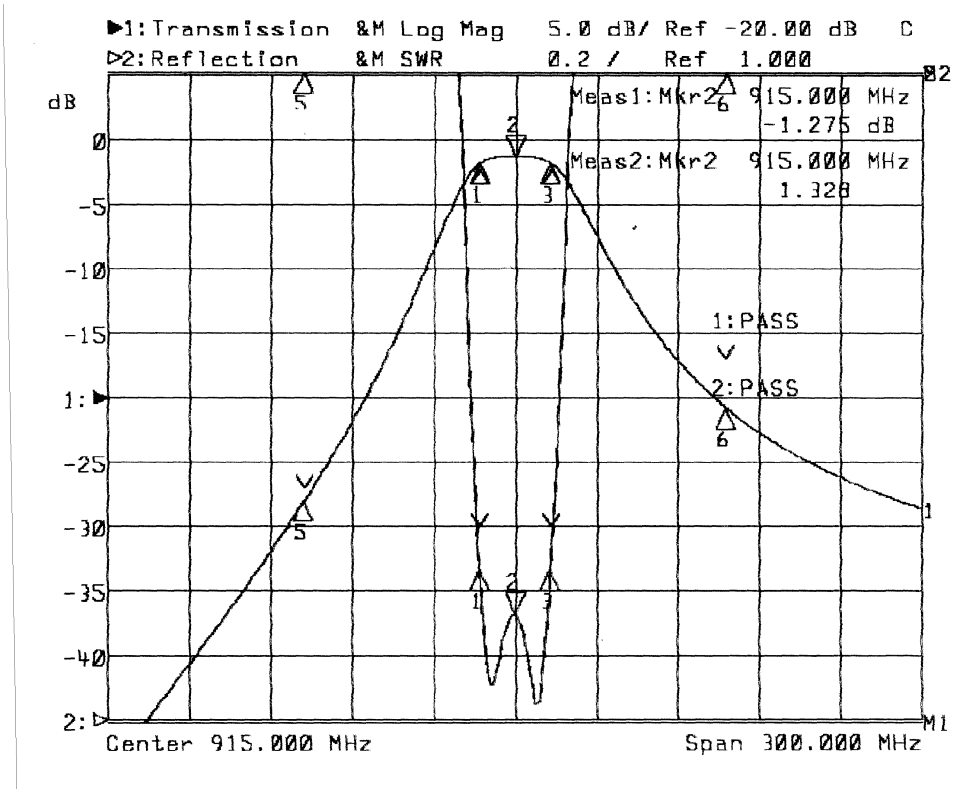
Construction and Materials

No.	Part Name	Construction and materials
4.1	Filter	Dielectric materials
4.2	Number of pole	2 pole
4.3	In/output Terminals	Ag Plated
4.4	Ground Base	Ag Plated

Electrical Characteristics

No.	Item	Specifications	Post Environmental orig Reading
5.1	Center frequency (fo)	915–/+1. 5MHz	–/+1. 5MHz
5.2	Insertion loss	2. 5dB	–/+0. 5 dB
5.3	Band width	fo–/+13. 0MHz	–/+0. 5MHz
5.4	Ripple(in BW)	0.5 dB Max.	–/+0. 5 dB
5.5	V.S.W.R(in BW)	2.0 Max.	–/+0. 5
5.6	Attenuation (Absolute value)	17dBmin (fo+77.5MHz) 27dBmin (fo-77.5MHz)	–/+2 dB
5.7	Permissible Input power	1 Watt	— —
5.8	In/output impedance	50	— —

Characteristic curve



- Environmental specifications

Post Environmental Orig reading see to the table 2

Temperature range	25–/+3 ℃
Humidity range	55~75%RH
Operating Temperature range	-10 ℃ ~+70 ℃
Storage Temperature range	-25 ℃ ~+85 ℃

- Moisture Proof

The device should satisfy the electrical characteristics specified in paragraph 5.1~5.6 after exposed to the temperature 40–/+2 ℃ and the humidity 90~95% RH for 96 hours. And leave it in a stationary state for 1 to 2 hours.

- Vibration

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 for of X,Y and Z directions.

- Drop Shock

The device should satisfy the electrical characteristics specified in paragraph 5.1~5.6 after dropped onto the hard wooden board from the height of 30cm for 3 times toward each X.Y and Z directions expect the terminal direction.

- Heat Proof

The device should satisfy the electrical characteristics specified in paragraph 5.1~5.6 after exposed to temperature 80–/+5 ℃ for 24–/+2 hours and leave it in a stationary state for 1 to 2 hours.

- Temperature impact Resistance

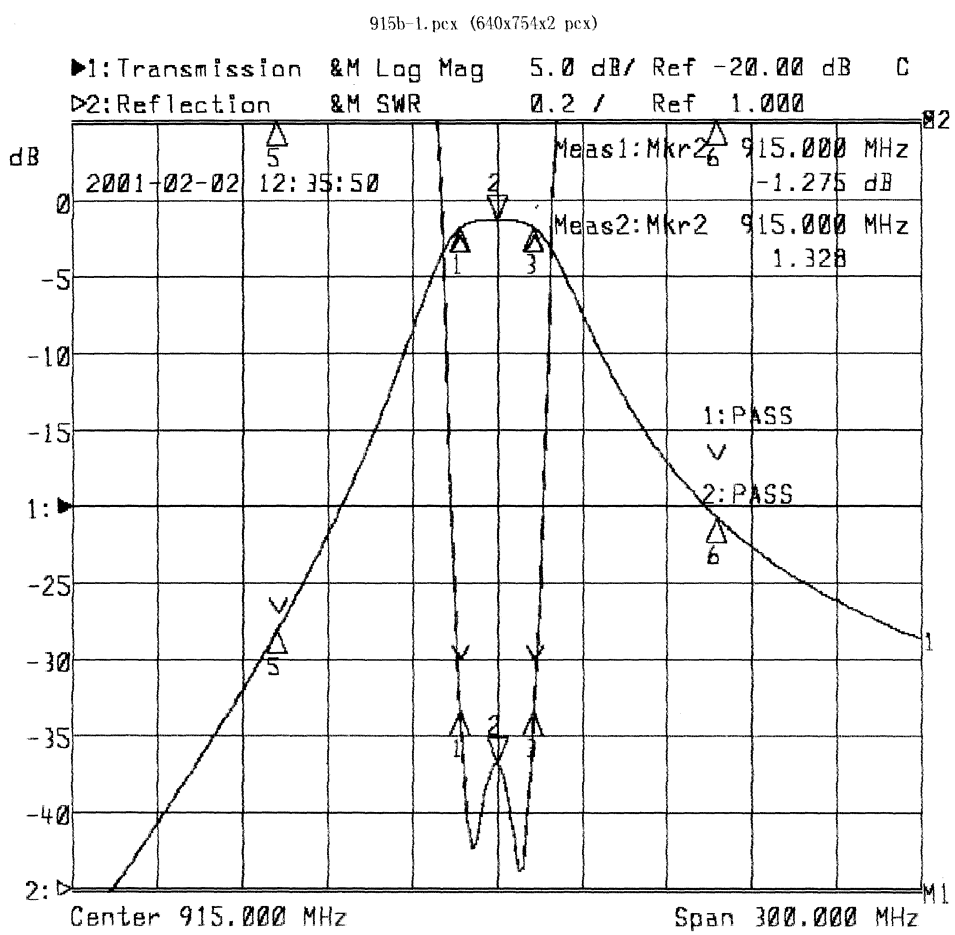
The device should satisfy the electrical characteristics specified in paragraph 5.1~5.6 after exposed to the low temperature -25 ℃ and high temperature +85 ℃ for 30–/+2 min each by 5 cycles and leave it in a stationary state for 1 to 2 hours.

- Solder Heat Proof

The device should be satisfied for preheated at 120℃ ~150℃ hold for 60 seconds and reflowed at 260℃ +10℃ 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.



1:Mkr (MHz)	dB	2:Mkr (MHz)	
1: 902.00	-1.755	1: 902.00	1.464
2› 915.00	-1.275	2› 915.00	1.328
3: 928.00	-1.744	3: 928.00	1.463
5: 837.50	-28.002	5: 837.50	15.970
6: 992.50	-20.695	6: 992.50	15.366