

## **FDCD5GBPF004 3.3~4.2GHz high out-of-band rejection Bandpass Filter**

### **Features**

- 3.3-4.2GHz Whole Sub-6G operating band
- New circuit topology for excellent return loss and high out-of-band rejection
- Novel Transmission zero control technology to enhance out-of-band rejection
- Passive integration on High-Si

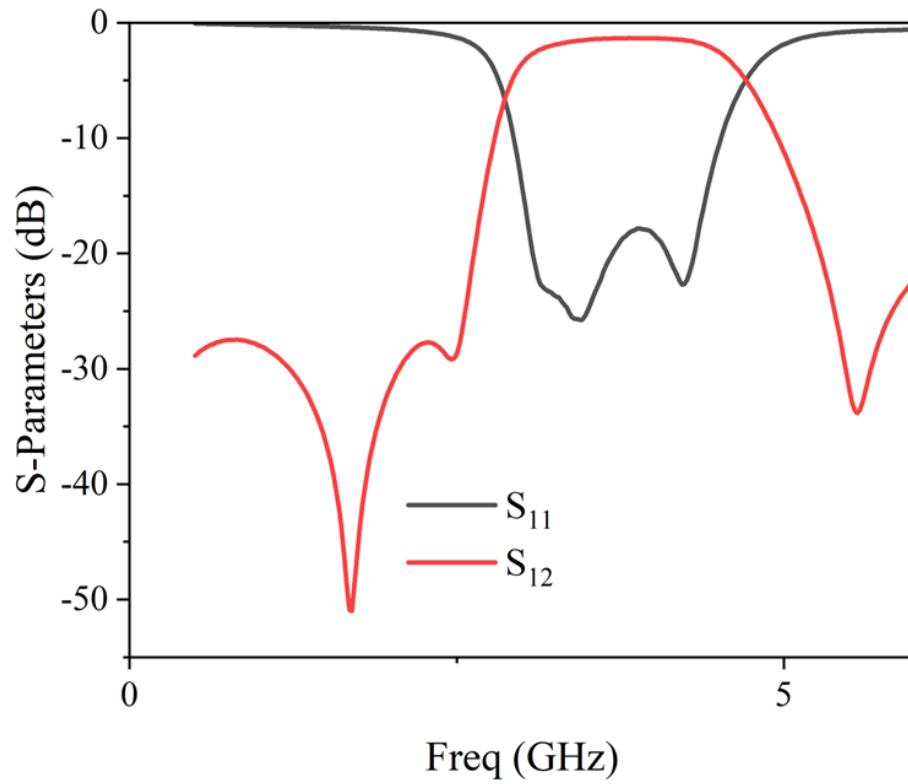
### **Applications**

- Wireless communication
- 5G NR, Sub-6G

### **Specification**

Description	Value
Pass Band	3300~4200MHz
Insertion Loss	1.8 dB(Max)@25°C
Return Loss	18 dB(Min)
Out of band rejection	45 dB (Min) @1710-1785 MHz 35dB (Min) @1910-1980 MHz 20dB (Min) @2500-2690 MHz 20 dB (Min) @5150-5950 MHz 25 dB (Min) @5270-5610 MHz
Input/output Impedance	50Ω
Dimension (Die)	1.0mm×0.5mm×0.3mm
Operating Temperature Range	-40~+85°C

## Electrical Performance

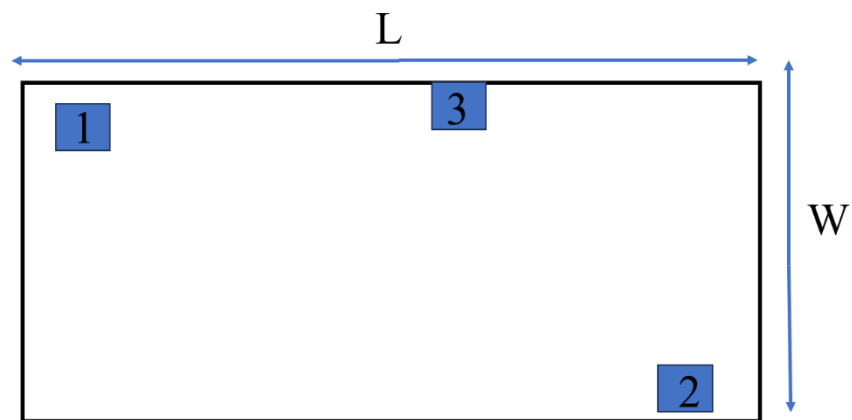


\*Designed by UltraEM V202109, Faraday Dynamics, Inc., Hangzhou, Zhejiang, China, 2023

## Layout & Dimension

### Dimension

Max Length--L(mm)	1.0
Max Width--W(mm)	0.5
Max Height--H(mm)	0.3
Package	FlipChip



Top View

### PIN Description

PIN	Description
1	Port 1
2	Port 2
3	GND