

FDCD5GBPF001 5G Bandpass filter

Features

- 5G Whole Sub-6G operating band
- New circuit topology for excellent return loss and low insertion loss
- Novel Transmission zero control technology to enhance out-of-band rejection
- Passive integration on High-Si

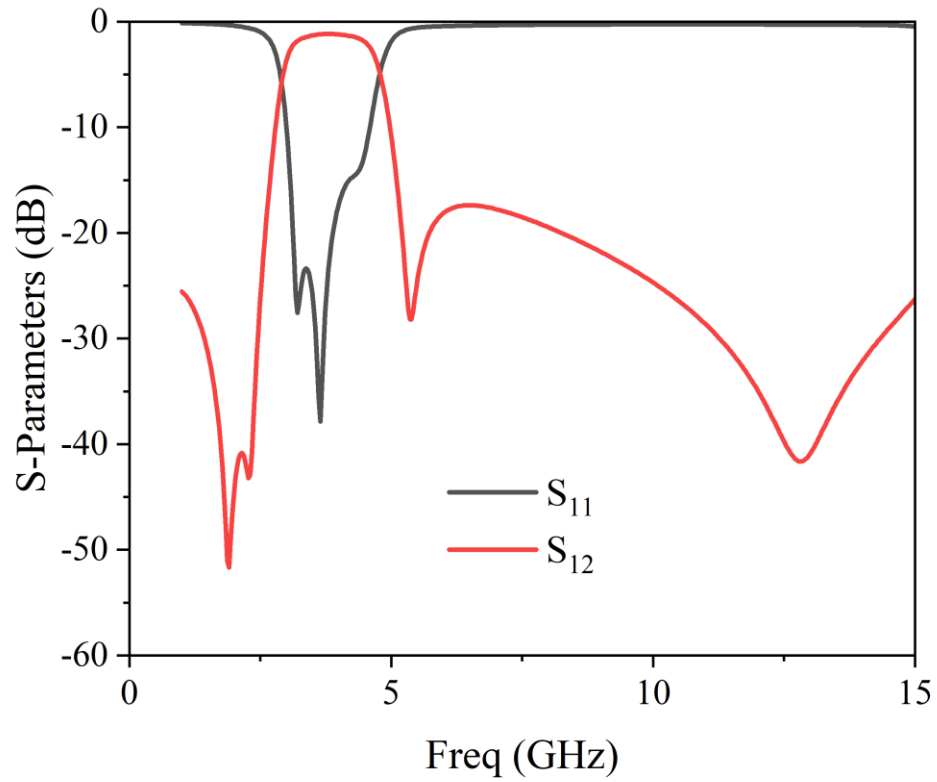
Applications

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

Specification

Description	Value
Pass Band	3300~4200MHz
Insertion Loss	1.55 dB(Max)@25°C
Return Loss	15 dB(Min)
Out of band rejection	38dB (Min) @1710-1785 MHz 45dB (Min) @1920-1980 MHz 26dB (Min) @2300-2500 MHz 15dB (Min) @2500-2690 MHz 20dB (Min) @5150-5925 MHz 20dB (Min) @6600-8400MHz 25dB (Min) @9900-12600MHz
Input/output Impedance	50Ω
Dimension (Die)	1.0mm×0.5mm×0.3mm
Operating Temperature Range	-40~+85°C

Electrical Performance

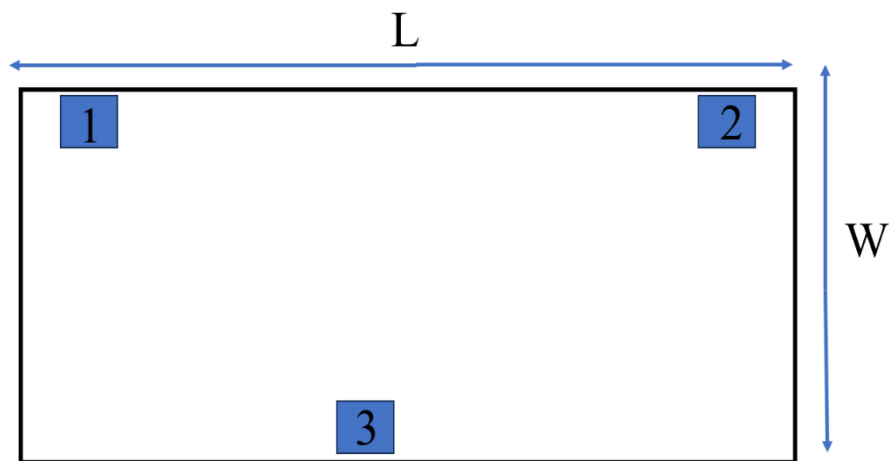


*Designed by UltraEM V202109, Faraday Dynamics, Inc., Hangzhou, Zhejiang, China, 2023

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