

FDBPF002 **3.3~4.2GHz High Rejection Band Pass Filter**

Features

- 3.3-4.2GHz Whole Sub-6G operating band
- Novel Transmission zero control technology to enhance out-of-band rejection
- New circuit topology for excellent return loss and low insertion loss
- Passive integration on GaAs and DFN6 Package

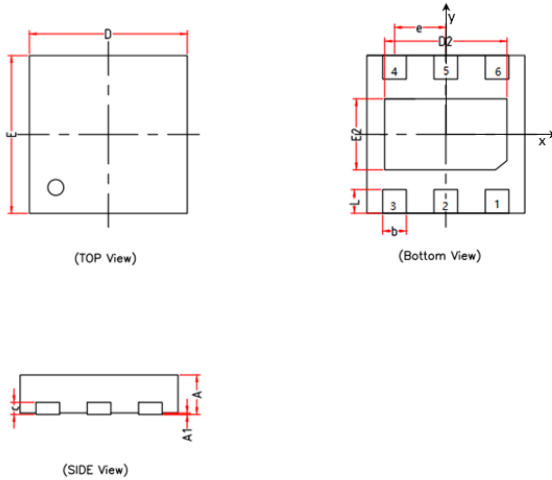
Applications

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

Specification

Description	Value
Pass Band	3300~4200MHz
Insertion Loss	2.5dB(Max)@25°C
Return Loss	16dB(Min)
Out of band rejection	45dB @ 1710-1850 MHz 25dB @ 2400-2500 MHz 20dB @ 2500-2690 MHz 25dB @ 5850-5925 MHz 22dB @ 6600-8400 MHz
Input/output Impedance	50Ω
Dimension (Die)	1.0mm×0.7mm×0.2mm
Dimension (package DFN6)	2.0mm×2.0mm×0.75mm
Operating Temperature Range	-40 ~ +85°C
Storage conditions	Temperature +5 ~ +35°C
	Humidity 45~75% RH
Storage Period	12 months max

Pad Position (DFN6 Package)

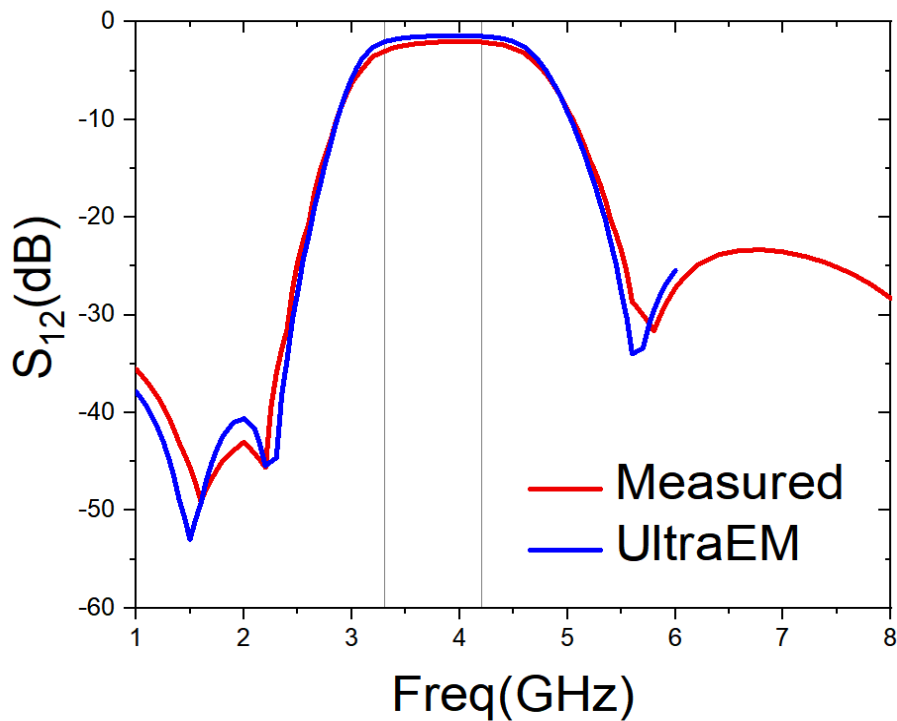
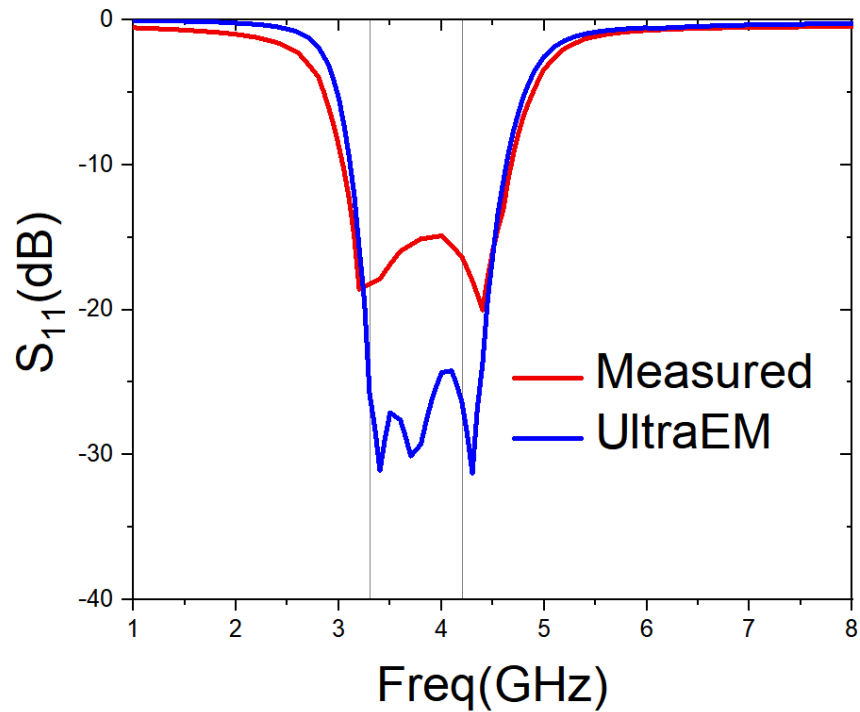


SYMBOL	MILLIMETER		
	MIN	NOM	MAX
A	0.70	0.75	0.80
A1	0.00	0.02	0.05
c	0.20 REF.		
b	0.25	0.30	0.35
D	1.90	2.00	2.10
D2	1.45	1.55	1.65
E	1.90	2.00	2.10
E2	0.80	0.90	0.70
e	0.65 BSC.		
L	0.25	0.30	0.35

Pad	1	2	3	4	5	6
Assignment	GND	IN	GND	GND	OUT	GND
Position	0.65, -0.85	0, -0.85	-0.65, -0.85	-0.65, 0.85	0, 0.85	0.65, 0.85

Co-ordinate origin: center of die; Pad position: center of pad @Bottom View;

Electrical Performance



*UltraEM V202109, Faraday Dynamics, Inc., Hangzhou, Zhejiang, China, 2022.