

FDCDWFDUP001 2.4-2.496GHz&4.95-5.9GHz Diplexer

Features

- 2.4-2.496GHz&4.9-5.95GHz Dual 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

Specification

Description	Value
Pass Band	2400~2496MHz
Insertion Loss	0.6dB(Max)@25°C
Return Loss	21dB(Min)
Out of band rejection	25dB @4900-6000 MHz 19dB @7200-7500 MHz 20dB @10300-14250 MHz
Input/output Impedance	50Ω
Dimension (Die)	1.5mm×0.7mm×0.3mm
Operating Temperature Range	-40~+85°C

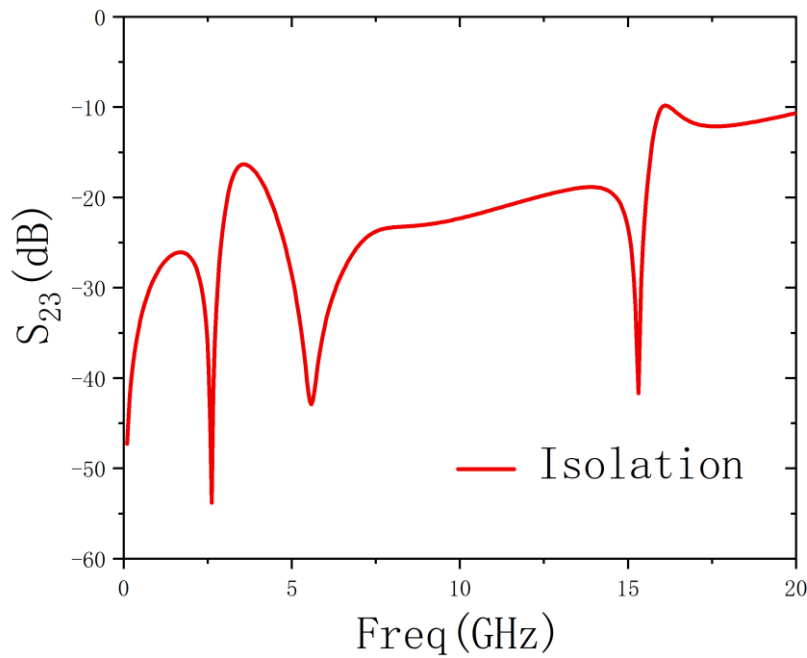
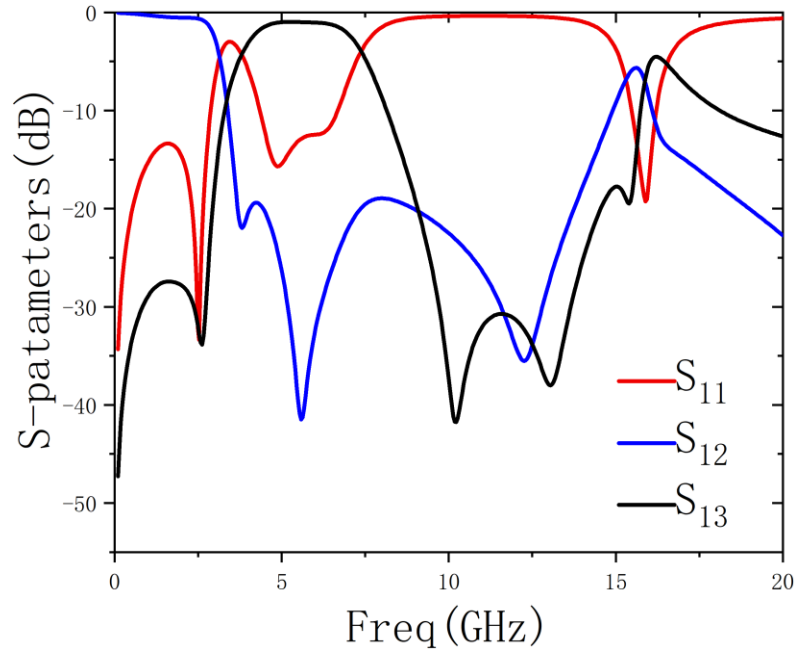
Data Sheet-IPD



Description	Value
Pass Band	4900~5950MHz
Insertion Loss	1.0dB(Max)@25°C
Return Loss	13dB(Min)
Out of band rejection	28dB @30-2700 MHz 30dB @9800-11900 MHz 8dB @14700-17850 MHz
Input/output Impedance	50Ω
Dimension (Die)	1.5mm×0.7mm×0.3mm
Operating Temperature Range	-40~+85°C

Description	Value
Isolation	26dB @30-2700 MHz 27dB @4900-5950 MHz
Return Loss	20dB(Min)
Input/output Impedance	50Ω
Power Handling (W)	3W
Dimension (Die)	1.5mm×0.7mm×0.3mm
Operating Temperature Range	-40~+85°C

Electrical Performance



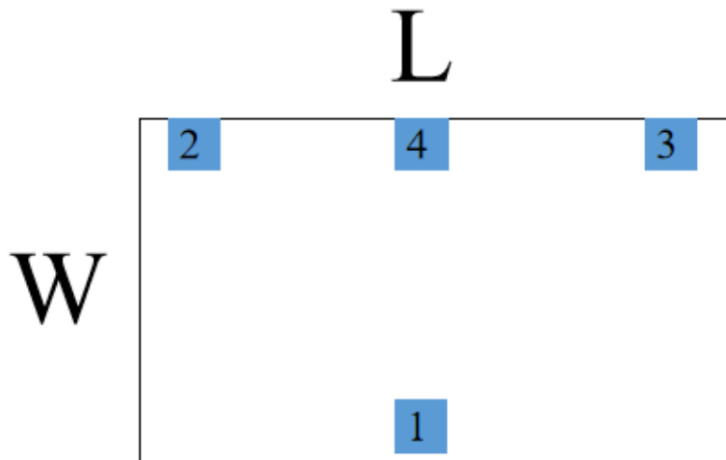
*Designed by UltraEM V202209, Faraday Dynamics, Inc., Hangzhou, Zhejiang, China, 2023.

Layout & Dimension

Dimension

Max Length--L(mm)	1.5
Max Width--W(mm)	0.7
Max Height--H(mm)	0.3
Package	FlipChip

Top View



PIN Description

PIN	Description
1	Common(P1)
2	Low Band(P2)
3	High Band(P3)
4	GND