

## **FDBAL001 2.8~6.0GHz Low Insertion loss Wide Band Balun**

### **Features**

- 2.8-6.0GHz 5G operating band
- Novel circuit topology for excellent return loss and low insertion loss
- Three coupling-lines spiral structure to enhance in-band unbalance
- Passive integration on High-Si

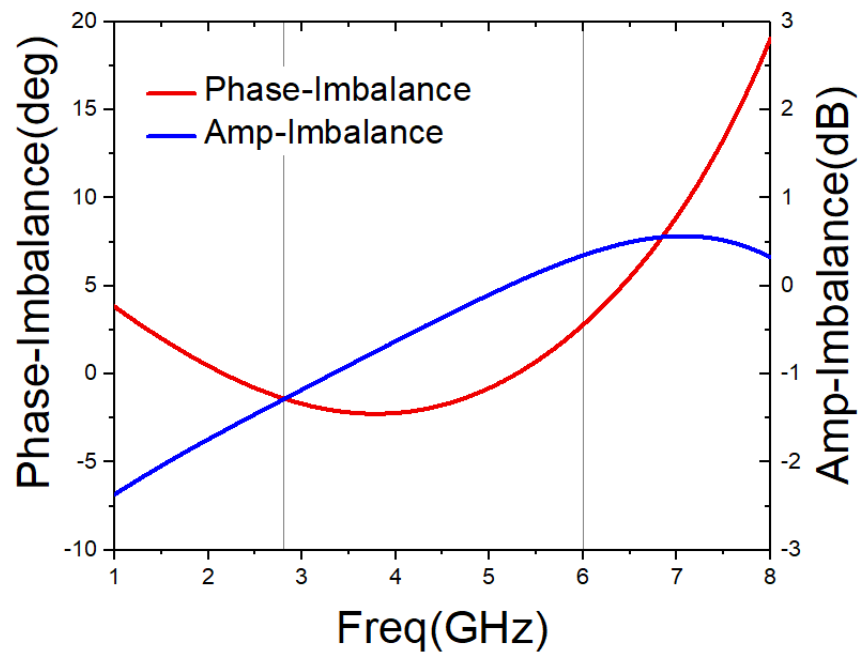
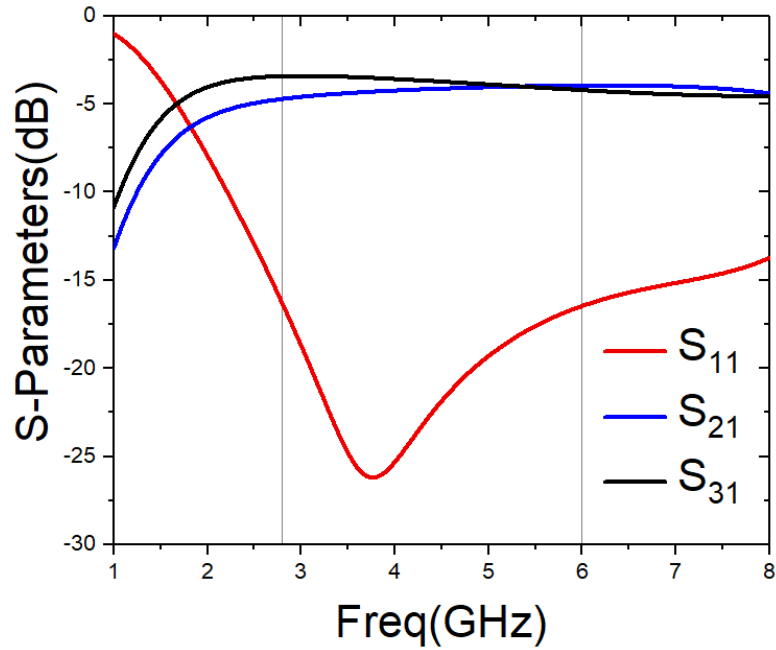
### **Applications**

- Wireless communication
- 5G

### **Specification**

Description	Value
Pass Band	2.8~6.0GHz
Input/output Impedance	50Ω/100Ω
Insertion Loss	1.2dB(Max)@25°C
Return Loss	15dB(Min)
Phase Imbalance	±2.5deg(Max)
Amplitude Impedance	±1.3dB(Max)
Dimension (Die)	1.2mm×1.2mm×0.75mm
Operating Temperature Range	-40~+85°C
Storage conditions	Temperature +5~+35°C
	Humidity 45~75% RH
Storage Period	12 months max

## Electrical Performance



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