

2.5 to 2.7GHz 4 Port Dual Junction Coaxial Circulator

Industry Applications

- Communication System Devices
- Detection & Satellite Equipment
- Test & Measurement:
- High-end Industrial & Military Scenarios
- Customization Available



Product Description

- High-performance dual-junction coaxial circulator, compact embedded structure for easy modular integration into RF systems.
- Adopts microwave non-reciprocal transmission principle to achieve unidirectional signal transmission, blocking reverse signal backflow and crosstalk.
 - Optimized dual-junction design provides superior electromagnetic matching, higher isolation and better stability than single-junction models.
 - Core RF component for transceiver signal isolation and circuit protection, effectively improving RF system stability and reliability.
 - Dual-junction coaxial circulator series features low insertion loss design to minimize signal attenuation and ensure high-efficiency microwave signal transmission.

RF Characteristics

Name	Unit	Performance Data
Frequency Range	GHz	2.5-2.7
Insertion Loss	dB Max	0.6
Isolation	dB Min	42
VSWR	Min	1.2
Operation Power	W	60W
Connector Type	/	TAB
Operating Temperature Range	℃	-40 ~ +85
Material	/	Aluminum

Quality Standards

- Standardized Production: Manufactured strictly in accordance with international RF microwave component specifications and industry unified quality standards.
- Full-item Parameter Testing: All core indicators including frequency band, VSWR, interface size and electrical performance are strictly calibrated and tested before delivery.
- Qualified Surface Treatment Process: Internal chromate conversion and external anti-corrosion paint processes meet industrial standards, guaranteeing long-term stable electrical performance and structural durability.
- Strict Environmental Reliability Test: Finished products pass high and low temperature cycling tests to verify extreme environment adaptability.
- Batch Quality Stability: 100% full-performance inspection for all finished products, meeting commercial, industrial and military-grade equipment matching requirements
- We provide a 12-month warranty for all products.

Mechanical Drawing

Unit: mm/ inch, General part tolerance is $\pm 2\%$ / unless otherwise stated.

