



- True SMD device for reflow soldering to PCB
- Thin-film substrate-based microstrip circulator
- Small size, low profile & light weight
- Low insertion loss and high isolation
- Broadband design
- Designed for space communications
- RoHS compliant

Parameter	Value	Remark
Product Type	Circulator	
Configuration	3-Port T-Junction	
Orientation of Rotation	clockwise	
Frequency Range	27 to 31 GHz	
Forward Peak Power	1 W	max.
Duty Cycle	100%	
Reverse Power	10% 100%	permanently short-term without damage
Insertion Loss	≤ 1.2 dB	
Return Loss	≥ 18 dB	
Isolation	≥ 18 dB	
RF Waveguide	Microstrip line, 50 Ω	
RF Flanges / Connectors	SMD solder pads	
Metallization	Au (3µm) / Ni (4µm) / Au (ENIG)	reflow solderable ¹⁾
Temperature Range	-40°C to +85°C	operational
	-40°C to +120°C	storage
	260°C max. for 10s	reflow soldering
Relative Humidity	< 95%	non-condensing
Dimensions	4 x 4 x 2 mm ³	
Footprint Drawing	3-123091-FP	
PCB Layout Drawing	see 3-123091-FP	
PCB Material (recommended)	Rogers RO3003 [®] , 10 mil	Cu (35µm) / Ni (4µm) / Au (<1µm)
Packaging	Tape and reel, RC1527	

