



- 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
- Fullband design
- Designed for military, space and commercial applications
- RoHS compliant

Parameter	Standard Value	Remark
Product Type	Circulator	
Configuration	3-Port Y-Junction	
Frequency Range	8.0 – 12.0 GHz	
Forward Peak Power	2 W	nominal
Duty Cycle	30%	nominal
Reverse Power	10% 100%	permanently short-term without damage
Insertion Loss	≤ 0.45 dB ¹⁾ ≤ 0.70 dB ¹⁾	< 0.5 W, at room temperature (RT) at 2 W, at RT
Return Loss	≥ 16 dB	at RT
Isolation	≥ 16 dB	at RT
RF Waveguide	Microstrip line, 50 Ω	
RF Flanges / Connectors	SMD solder pads	
Metallization	Au / Ni / Au	chem. Ni / Au, reflow solderable ²⁾
Temperature Range	-40°C to +85°C	operational
	-40°C to 120°C	storage
	260°C max. for 10s	reflow soldering
Dimensions	7 x 7 x 2.5 mm ³	
Footprint Drawing	FP-10073976	
PCB Layout Drawing	FP-10073974	
PCB Material (recommended)	Rogers RO4003 [®] , 300µm	Cu (50µm) / Ni (4µm) / Au (<1µm)

¹⁾ Not applicable for the path 3 to 1

²⁾ Solderability and coating durability limited to 6 month after shipment