



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

<sup>1)</sup> Not applicable for the path 3 to 1

<sup>2)</sup> Solderability and coating durability limited to 6 month after shipment