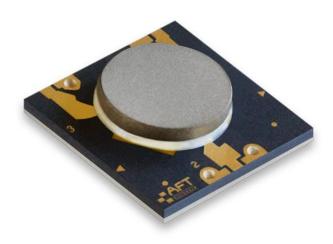


## Data Sheet C3-MD-X-01 Drop-in Circulator 8-12GHz 20W

Author C. Weil
Revision 01
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- Thin-film substrate-based microstrip circulator
- Small size, low profile & light weight
- Low insertion loss and high isolation
- Fullband design
- Drop-in assembly into circuit board using conductive gluing to carrier and Au-wire or ribbon bonding to adjacent lines
- Designed for military, space and commercial applications
- RoHS compliant

Parameter	Standard Value	Remark
Product Type	Circulator	
Configuration	3-Port Y-Junction	
Frequency Range	8 - 12 GHz	
Forward Peak Power	20 W	
Duty Cycle	30%	
Reverse Power	10% 100%	permanently short-term without damage
Insertion Loss	$\leq$ 0.4 dB $\leq$ 0.6 dB	at RT over temperature
Return Loss	≥ 16 dB ≥ 15 dB	at RT over temperature
Isolation	≥ 16 dB ≥ 14 dB	at RT over temperature
RF Waveguide	Microstrip line, 50 $\Omega$	
RF Flanges / Connectors	Drop-in for Au-wire or ribbon bonding	
Metallization	Au	
Temperature Range	-35°C to +71°C	operational
	-60°C to +120°C	storage
	+150°C max. 2h	for assembly
Dimensions	7 x 7 x 2.5 mm <sup>3</sup> (max)	
<b>Footprint Drawing</b>	See preliminary drawing attached	



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