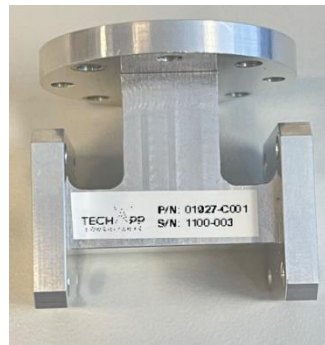


KA BAND OMT / POLARIZER

OVERVIEW

Ka band orthogonal mode transducer (OMT) / Polarizer offers 2x RF ports--one for uplink and the other for downlink for a dual-circular polarization operation. The design is compact and low in mass with excellent RF performance. Higher isolations can be achieved by the addition of waveguide filters, which are not included in this standard design.

DESIGN AND PROTOTYPE UNIT



KEY FEATURES

- 2-port Ka band OMT / Polarizer: 1 for downlink and 1 for uplink
- Compact design
- Orthogonal polarizations between ports
- Low return loss
- Low insertion loss
- Low PIM design
- Low risk multi-paction design
- High isolations between ports

SPECIFICATIONS

Parameter	Specification	Note
Frequency (GHz)	17.7 – 20.2	Downlink
	27.5 – 30.0	Uplink
Isolation [1] (dB)	70	In uplink band
	80	In downlink band
Insertion loss (dB)	0.1	Typical
Return loss (dB)	-15	Typical
Polarization	Dual circular	Orthogonal to each other
RF interface [2]	WG21	For downlink and uplink port
PIM	Low	Low PIM design
Multipaction	Low	Low risk multipaction design
Dimension (mm)	~33.5x34.5x34.0	Including the WG flange
Mass (g)	~25	

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[1] High isolation is offered by the addition of filters
 [2] Other types of interfaces are available on request

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