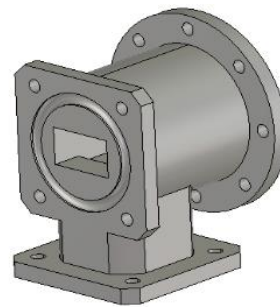


KU BAND OMT

OVERVIEW

Ku band orthogonal mode transducer (OMT) offers 2x RF ports--one for uplink and the other for downlink with a common port connecting to either a feed horn (TAC_1934_Ku Band Feed Horn) or a polarizer (similar to TAC_1933_K/Ka Band Polarizer but with Ku band frequency). 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. This OMT can be integrated as part of the feed horn system in design.

DESIGN AND PROTOTYPE UNIT



KEY FEATURES

- 2-port Ku band OMT—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-pactions design
- High isolations between ports

SPECIFICATIONS

Parameter	Specification	Note
Frequency (GHz)	10.7 – 12.75	Downlink
	13.75 – 14.5	Uplink
Isolation [1] (dB)	70	In uplink band
	80	In downlink band
Insertion loss (dB)	0.1	
Return loss (dB)	-20	Measured at downlink and uplink ports
Polarization	Dual linear	Orthogonal to each other
RF interface [2]	WG17	For downlink and uplink port
PIM	Low	Low PIM design
Multipaction	Low	Low risk multipaction design
Dimension (mm)	40x50x60	Including the WG flange
Mass (g)	<150	

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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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