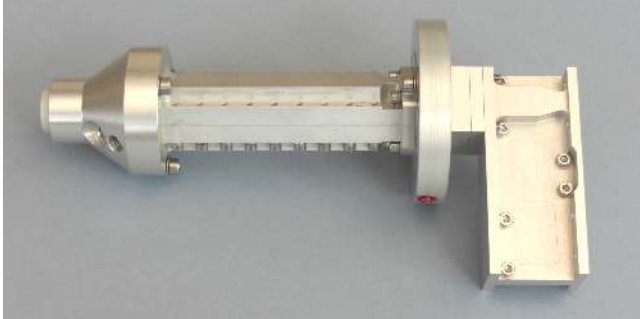
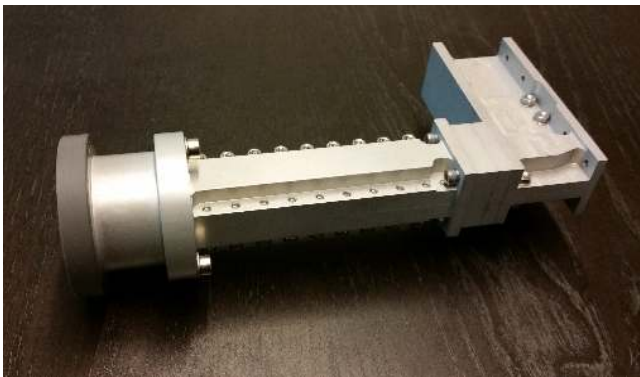


High Performance Ka Rx Band 17 - 22 GHz Dual Polar CP Scalar Feed

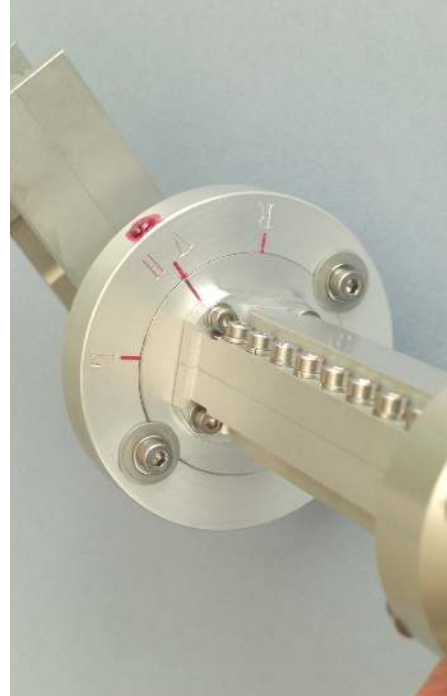
MODEL 90315, 90337



Model 90337 - Manually Switchable Polarisation



Model 90315 - Fixed Polarisation



Model 90337 - Manually Switchable Polarisation

Ka Satcom full receive band prime focus feed providing high isolation and very low return loss. This feed is ideal for surveillance monitoring, edge-of-beam applications and Earth Station reception in both the civil and military Ka bands.

Features

- Full band operation 17 - 22 GHz with excellent performance across whole band.
- The feed comes with three options of rotating the OMT with respect to the polariser:
 - *Fixed Polarisation*
 - *Manually Switchable Polarisation* between circular and linear
 - *Motorised Polarisation* with two motors, one for the polarisation change and one for skew adjust when in Linear polarisation mode.

Other Parts Available

Linear Polarisation feed

P/N 90432

Linear Offset feed version

P/N 90433

Contact us today to discuss your company's requirements

Electrical Specification

	Model No. 90315 Fixed	Model No. 90337 Manually Adjustable
Frequency	17 - 22 GHz	
f/D	0.34 - 0.40	
Polarity	Dual Circular or Dual Linear	
VSWR (typical)	< 1.2:1	< 1.2:1
Isolation	> 20 dB tested port to port. Typically greater than 25 - 30 dB	> 20 dB tested port to port. Typically greater than 25 - 30 dB
Axial Ratio	> 0.6 dB over 80% of bandwidth, rising to < 1 dB at extreme band edges	> 0.6 dB over 80% of bandwidth, rising to < 1 dB at extreme band edges
Typical Insertion Loss	Maximum 0.2dB	Maximum 0.2dB

Mechanical Specification

	Model No. 90315 Fixed	Model No. 90337 Manually Adjustable
Dimensions	205mm (L) x 97mm (W) x 50mm (H)	215mm (L) x 105mm (W) x 75mm (H)
Stock Material	Aluminium 6082	
Interface	2 x WR42 (WG20) flanges	
Fixings	M3 clearance holes at WR42 interface	
Weight	447g	470g
Finish	RAL9010 white polyurethane as standard	

Elite Antennas designs & manufactures a wide range of high performance satcom antennas, meteorological antennas and waveguide systems for high-end customers including defence agencies, commercial broadcast networks, systems integrators and research agencies.

Contact Elite Antennas for more information on applications and related products, services and systems



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