



Feed Specification
for
CPI 3.80 Meter DPC Antenna
With Two Ports Transmit/Receive Circularly Polarized Feed
Intelsat Std F1 Type Approved
Receive Transmit

Frequency in GHz-----	3.625-4.200	5.850-6.425
Port Type-----	Rx1	Tx1
Polarization-----	Circular	Circular
Feed Port Polarizations-----	LHCP	RHCP
Cross Polarization Isolation		
On Axis -----	20.8 dB	27.3 dB
Within 1.0 dB Beamwidth -----	20.8 dB	24.3 dB
VSWR (Return Loss)-----	1.50:1(14.0dB)	1.30:1(17.7dB)
Axial Ratio-----	1.58 dB	0.75 dB
Feed Insertion or Ohmic Loss -----	0.30 dB	0.20 dB
Port to Port Isolation-----	0.0 dB (Input)	-85.0 dB
Port to Port Isolation-----	-120.0 dB	0.0 dB (Input)
Output Waveguide Flange Interface-----	CPR-229G	CPR-137G
Total Power Handling Capability-----		1.00 kW CW

Notes - Other operational frequencies available

- Power handling capability is based on and limited by the physical characteristics in the feed components. Microwave power at these levels may contribute to the radiation hazard or exceed certain offaxis EIRP specifications.

-G/T is calculated by bolting single LNA directly to the feed.It does not allow for any post LNA effects.



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All values are at the rear feed output flange.