

CIR-5760

C-Band Circular Septum LHCP / RHCP Dish Feed
Tuned @ 5760MHz

C-Band Circular Polarization:

For many operations mode is standard is to transmit in RHCP and receive in LHCP. RH=right hand; LH=left hand and refers to which direction the RF wave rotates. The easiest way to visualize it is by thinking of how a nut rotates on a bolt on RH thread vs LF thread. The reason two senses of CP are required is that CP is reversed upon reflection from the surface of the Dish.

This Circular dish feed:

In this Circular dish feed the two polarities are produced without need of external 90degree hybrids (which add loss) and this eliminates use of high power TR relays.

P/N: **CIR-5760** is supplied including Scalar ring for deep dish illumination. (F/D=0.30). Scalar ring can be stepless adjusted over the dish feed for optimal illumination.

The Port Isolation of this Circular Dish feed is >20dB, in this case it is the best option to add a coax relay to 1 of the ports if on the other port will be transmitted. The relay can be a simple low loss, for example SMA relays which has a good isolation when switched to ground by a 50Ohm Load when transmit is active. Now the Preamplifier (LNA) is protected by the Transmit signal.

Refer to the drawing right on this page.

Ready to use:

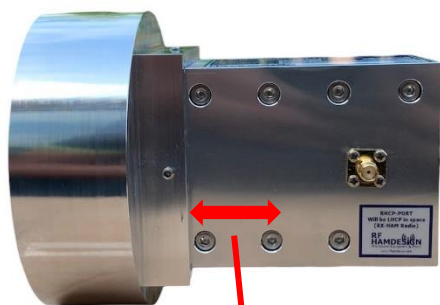
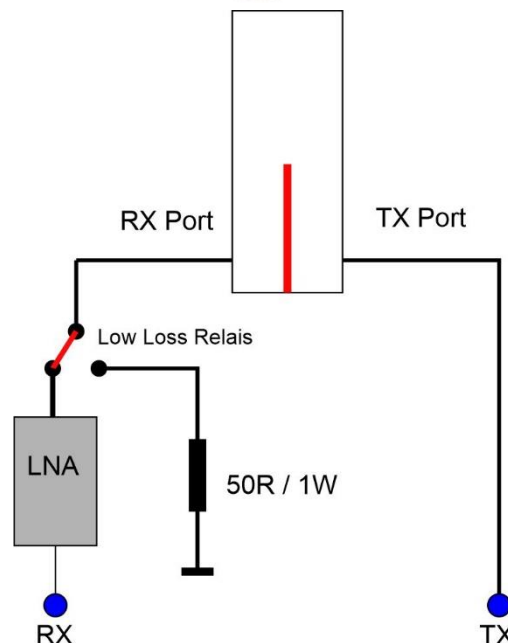
This Circular Dual Mode Dish feed is CNC milled with high precision, ready to use, supplied including measurement plot, LHCP and RHCP ports are labeled. Note: Polarization change over once dish is placed in front of a reflector / dish !

Dish Feed Bracket:

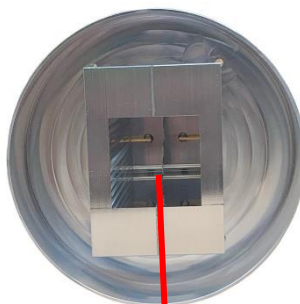
RF HAMDESIGN offers a CNC Milled dish feed bracket (P/N:CLX-5760)

Dish feed model CIR-5760 can be placed into CLX-5760 and mount in front of the dish.

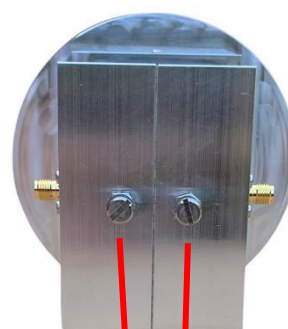
Model CLX-5760 bracket is configured to use with a 4-Leg Dish feed support of maximal 20mm square tube.



Scalar Ring can be slide over the Septum dish feed to optimize F/D. Scalar Ring is fixed with 4* M4 Imbus screws.



Laser cut septum



Tune LHCP / RHCP Port

Specifications CIR-5760, C-Band Circular Dish Feed

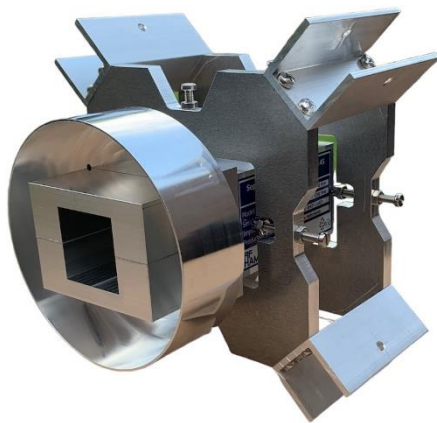
Description	C-Band 5760MHz
Septum Dish feed incl Scalar Ring	Prime Focus
Scalar ring for F/D 0.30...0.45	Included
Return loss LHCP / RHCP port	>25 dB
Isolation RX <> TX port	> 20 dB
Max. RF Power input (LHCP or RHCP port)	125 Watts
Impedance	50 Ohms
Tuned to users specifications	Yes
Labeled ports	Yes
Supplied incl Measurement plot	Yes
Illumination angle for feed (-10dB)	115 degrees
Weight incl. Scalar ring	1.04 Kg
Connector LHCP / RHCP Port	SMA Female
Overall Dimensions Septum dish feed	136 x 69 x 49 mm
Overall Dimensions incl. scalar ring	Round 108 x 136 mm
CNC Milled Aluminum Material	AW-5083 H111

CLX-5760 Dish Feed Bracket:

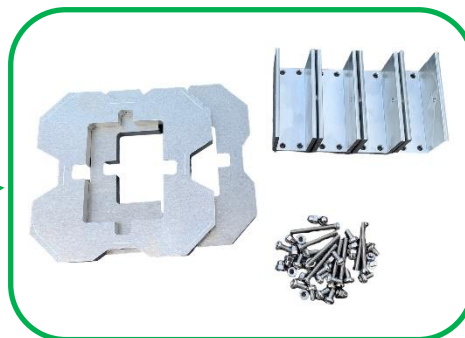
The way to mount your dish feed in front of your Prime Focus Dish
Easy to mount in a 4-Leg Dish feed support system.

Specifications CLX-5760 Mounting Bracket

Description	
Weight CNC Milled Dish Feed Bracket	0,70 Kg
Overall Dimensions	175 x 175 x 75 mm
Mounting in front of Prime Focus Dish by	4-Leg Support maximal 20mm sq tube
Material: Aluminum / Stainless steel	Supplied including mounting hardware
CNC Milled Aluminum Material	AW-5083 H111



CLX-5760 comes with
all mounting parts



Price information

Product / Part Number	EURO	EURO Export outside EU
CIR-5760 Septum Dish feed incl Scalar Ring	375,-	310,-
CLX-5760 Bracket to mount dish feed in front of a dish	152,-	125,-