

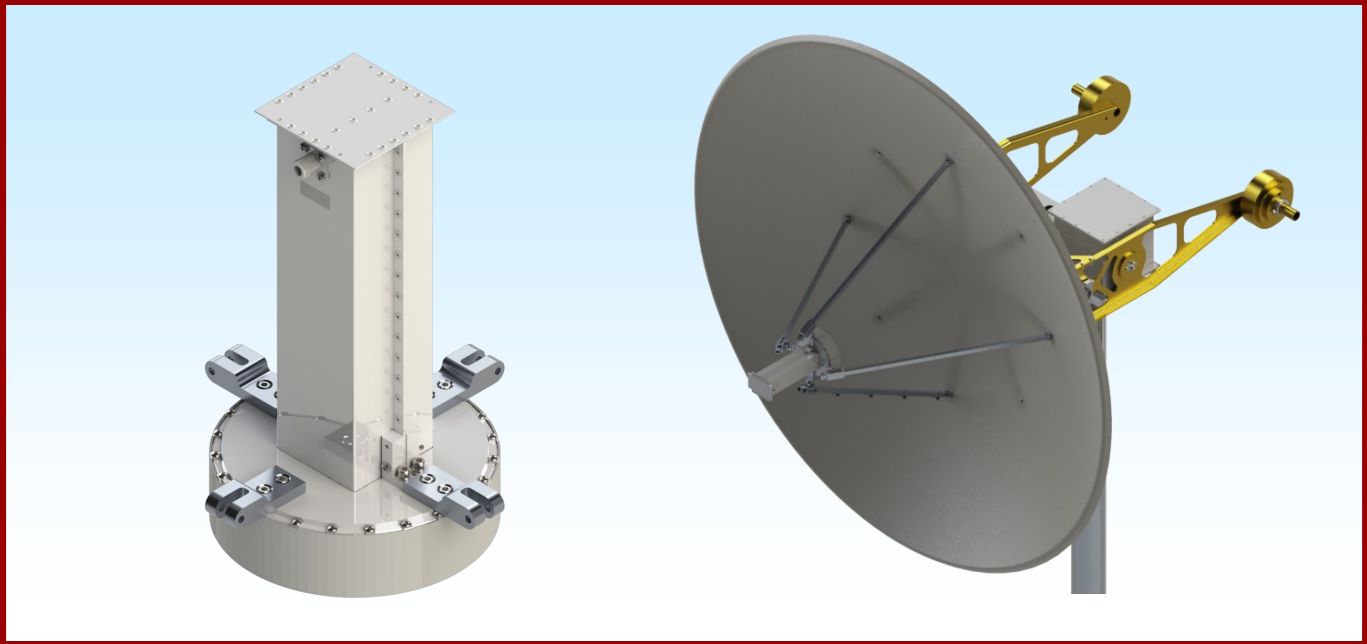


M2 Antenna Systems, Inc.

Model No: FGFD-1-SC-2-N

S-BAND SEPTUM DISH FEED

2100-2400MHz



SPECIFICATIONS:

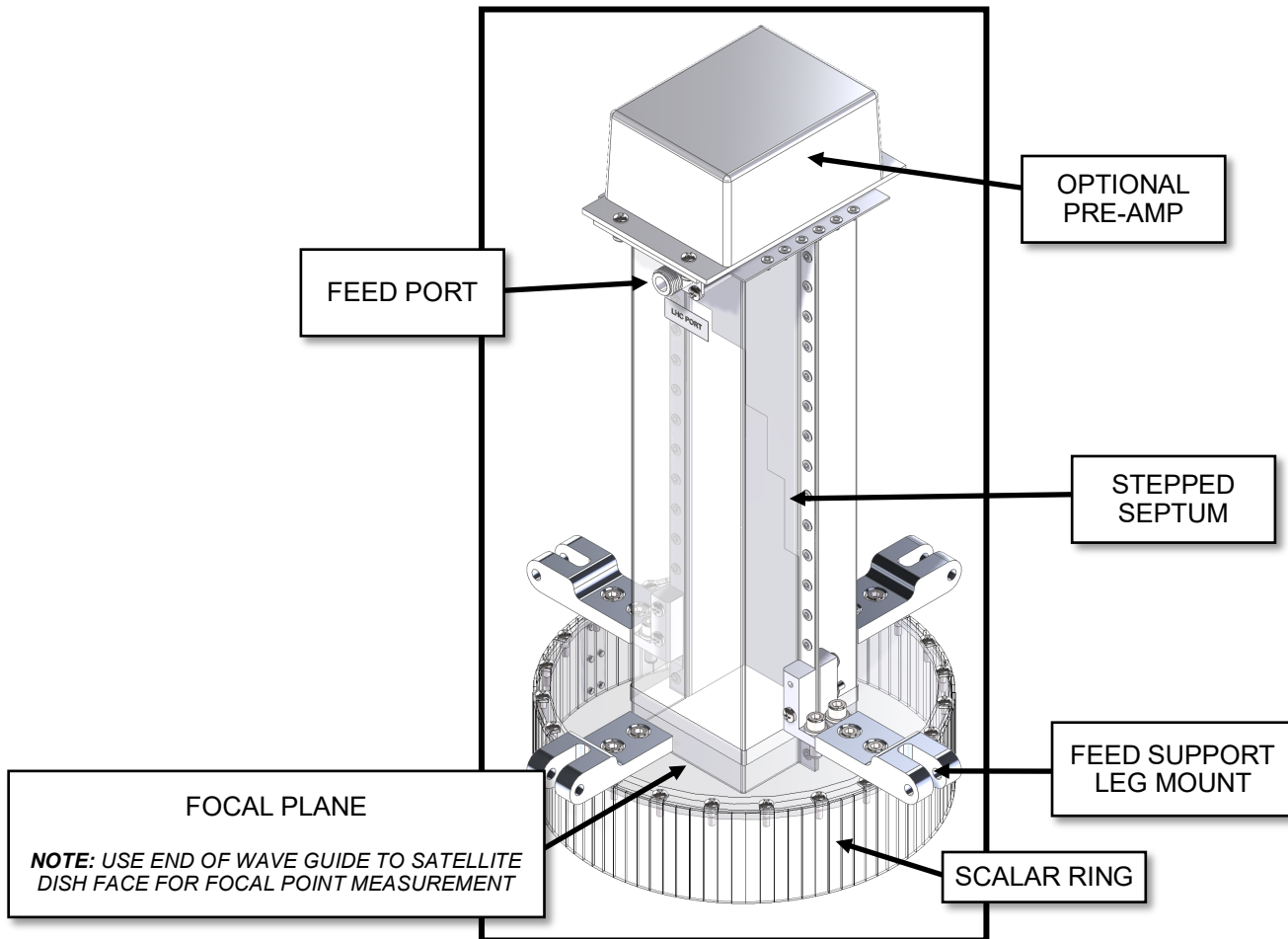
MODEL NUMBER.....	FGFD-1-SC-2-N
FREQUENCY COVERAGE.....	2100-2400 MHz
OPTIMUM DISH F/D RATIO.....	0.3 TO 0.45
SYSTEM EFFICIENCY	50 TO 65%
ISOLATION BETWEEN PORTS.....	<30 DB
ELLIPTICITY.....	2.0 DB
POLARITY	RHC / LHC
CONNECTOR.....	"N" FEMALE
DIMENSIONS	15" X 4" X 4"
WEIGHT	4 lbs.

***Subtract 2.14 from dBi for dBd**

FEATURES:

The 2100-2400 MHz Septum Dish Feed offers many advantages over standard feed assemblies. The 2100-2400MHz Septum Dish Feed has an extremely compact element design and has very good isolation between both LHC and RHC ports. Currently three frequencies are available, but the feed is scalable for your custom application. Custom spar leg mounts are also available for your specific dish size. Contact M2 Antenna Systems, Inc. with your requirements and we will help you put together a complete turnkey system.

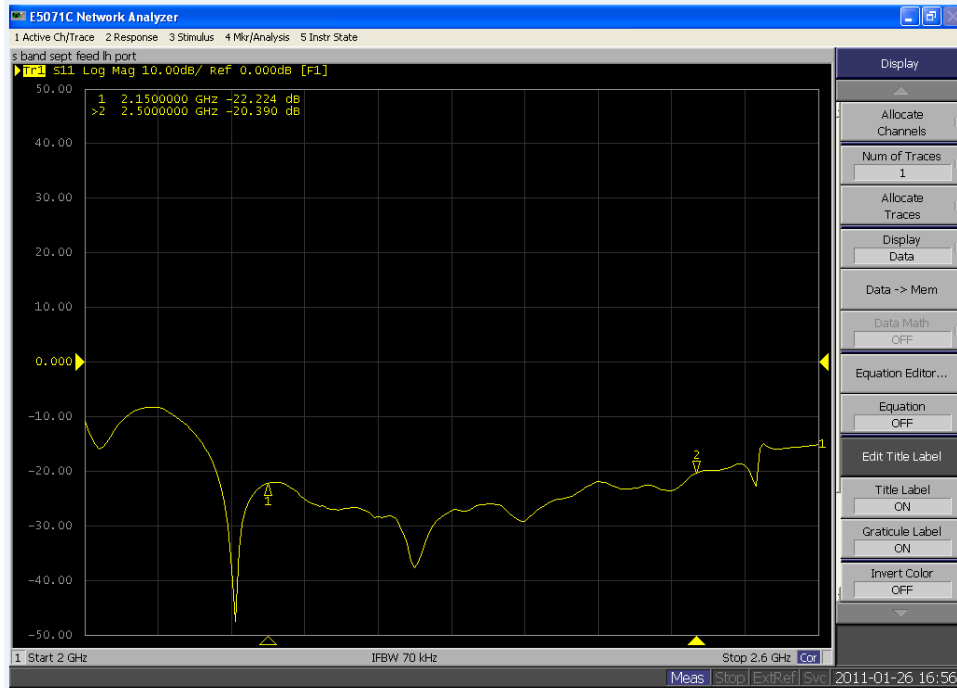
2100-2400MHz SEPTUM DISH FEED



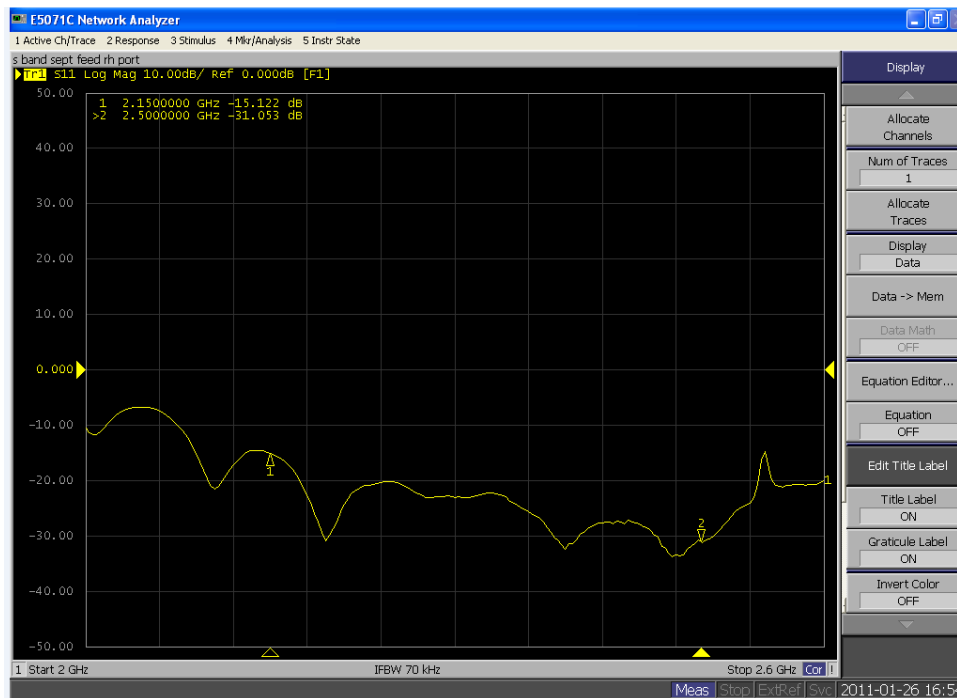
TECHNICAL DATA

1. Septum feed used with circular scalar ring or choke ring is most effective in reducing side lobes with dishes of 0.3 to 0.45 F/D ratio.
2. When using only one of the two ports 50 ohm, a termination of the unused port is required.
3. Efficiencies of 50% to 65% can be achieved.
4. Custom feed support legs and brackets are available to fit any dish requirements.
5. Optional feed mounted Pre-Amp enclosures available upon request. Contact M2 Sales (sales@m2inc.com) for further information about our line of Feed Pre-Amps.

TYPICAL 2100-2400MHz SEPTUM DISH FEED VSWR



TYPICAL VSWR CHART LHC PORT TESTED W/
6 FT DISH .375 F/D (PACIFIC RADOME)



TYPICAL VSWR CHART RHC PORT TESTED W/
6 FT DISH .375 F/D (PACIFIC RADOME)

FGFD2100-2400 SYSTEM PARTS & HARDWARE

<u>DESCRIPTION</u>	<u>QTY</u>
S-BAND SEPTUM FEED, 2100-2400 MHz (SAFD0002)	1
50Ω LOAD	1
 <u>OPTIONAL PRE-AMP</u>	
S-BAND PRE-AMP	1
SCREW, 8-32, PHILLIPS PAN HEAD, SS.....	4
LOCKNUT, 8-32, SS	4