MANT-2224OM-16A/01
Medium Gain OMNI Antenna System

This is a totally integrated system where the antenna is hard mounted to the electronic package and the RF Output of the amplifier can be used as an Input to Receiver, Multicouplers or Down Converters. The Noise Figure at the RF Input Connector is 1.7 dB Maximum and 1.4 dB Typical.

Antenna Specifications

Antenna Frequency Range:	2,000 to 2,400 MHz
Antenna Gain @ 2,300 MHz:	6dB
Polarization	Vertical
AZ Beamwidth	360 deg
AL Beamwidth	25 deg typical
V.S.W.R.:	1.6:1 Max

Filters

½ dB Passband:	2,200 to 2,400 MHz
Out of Band Rejection:	50 dB @ 1,900 and 2,700 MHz

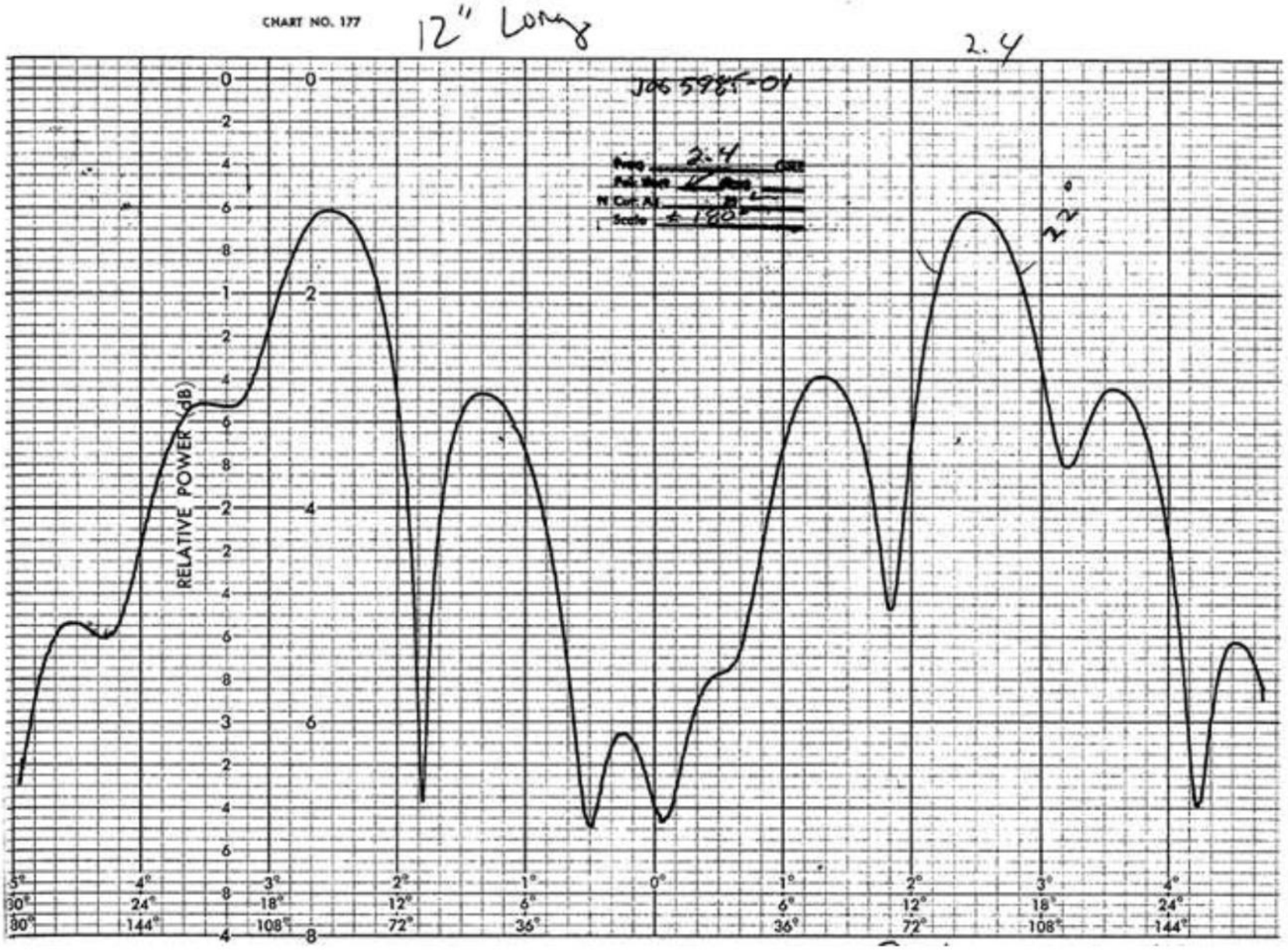
Amplifiers

Pass band:	2,200 to 2,400 MHz
Gain:	40 dB, Typical
Noise Figure:	0.8 dB, Maximum, 0.6 dB, Typical

Packaging

Antenna	12” x 1.625” (L x Diam)
Electronics:	4” x 4” x 6” (W x H x L)
AC Power:	Standard: **90 to 260 VAC @ 50-60 Hz**
Power Connector:	MS3102E10SL-3P
Display:	LED showing Power to system
RF Connectors:	Type N-female
Mounting:	Tripod ready with a additional 1 ¼" x **6"** Extension for additional length from bottom of chassis
Chassis:	Weatherproof and Sealed
Operating Temperature Range:	-20 to +50 ° C
Storage Temperature Range:	-40 to +70 ° C
Humidity:	5 to 95 % Non condensing





Patterns for the 2.2 - 2.4 GHz 12” antenna.
Zero degrees is off the top of the antenna. Peak gain is at 90 degrees (horizon).