MANT-1424-2C-9A/0106
Broad Beam Width Dual Polarized Low Gain Antenna System

This is a totally integrated system where the antenna is hard mounted to the electronic package and the RF Output of the amplifiers can be used as an Input to Receivers, 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:	1,435 to 2,400 MHz
Antenna Gain:	
	- 1,485 MHz 6.5 dBic, Typical
	- 1,800 MHz 8.0 dBic, Typical
	- 2,300 MHz 9.0 dBic, Typical
Antenna 3 dB Beam width:	
	- 1,485 MHz 70 degrees, Typical
	- 1,800 MHz 60 degrees, Typical
	- 2,300 MHz 50 degrees, Typical
Antenna Polarization:	RHCP and LHCP
Axial Ratio:	2 dB
V.S.W.R.:	2.0:1

Filters (2 each)

Filter ½ dB Passband:	1,435-1,540 MHz and 2,200-2,400 MHz
Out of Band Rejection:	50 dB @ 1,135 and 2,700 MHz
Option 06:	Notch Filter between 1,850 to 2,200 MHz with 50 dB rejection @ 2,025 MHz

Low Noise Pre-Amplifier (2 each)

Pass band:	1,435 to 2,400 MHz
Gain:	45 dB, Typical
Noise Figure:	1.0 dB, Maximum, 0.8 dB, Typical

System Packaging

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 degrees C.
Humidity:	5 to 95 % Non Condensing


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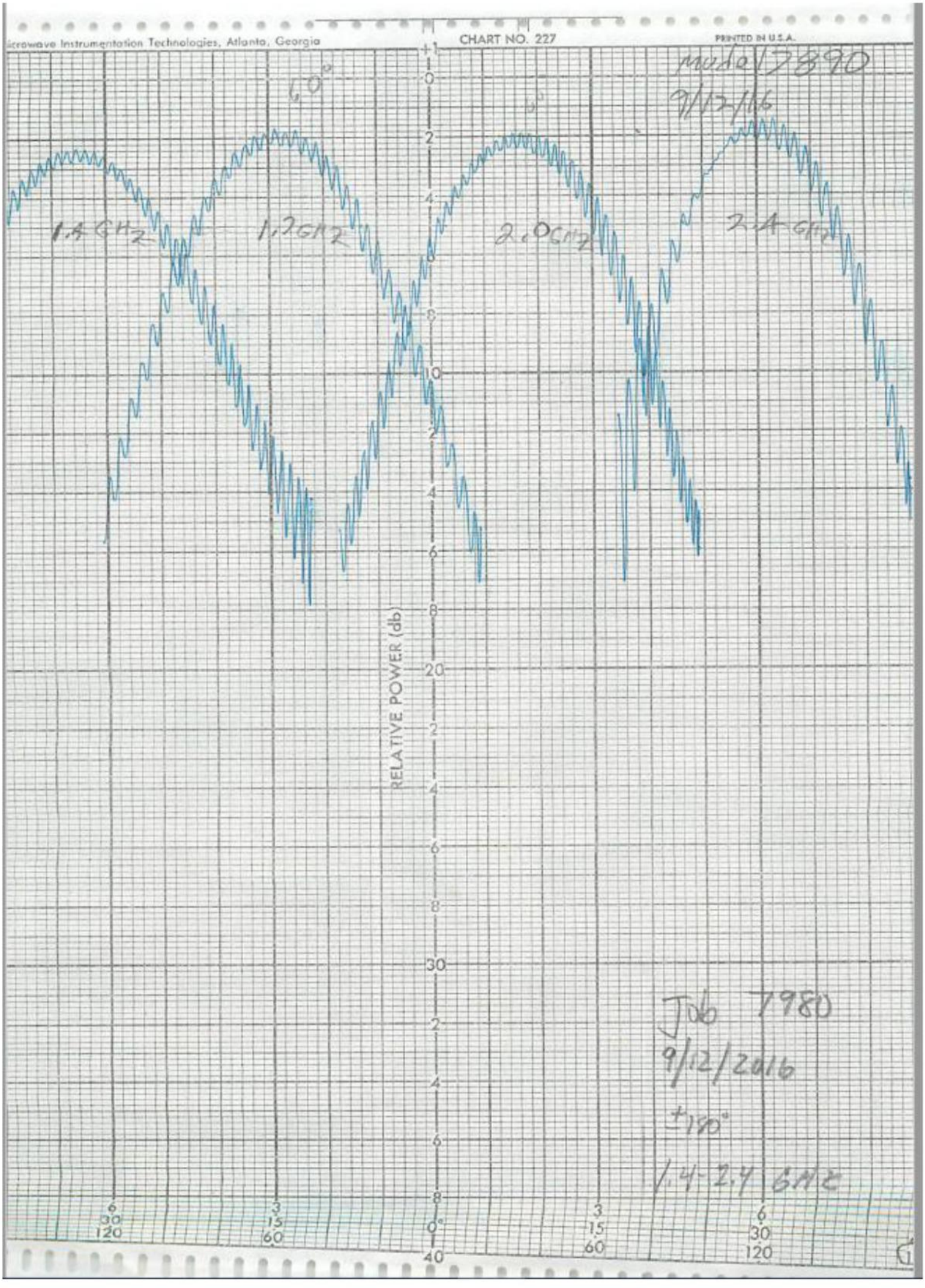

Microwave Instrumentation Technologies, Atlanta, Georgia
CHART NO. 227
PRINTED IN U.S.A.
Mode 17890
9/12/16
60°
1.4 GHz
1.7 GHz
2.0 GHz
2.4 GHz
RELATIVE POWER (db)
Job 7980
9/12/2016
±180°
1.4-2.4 GHz