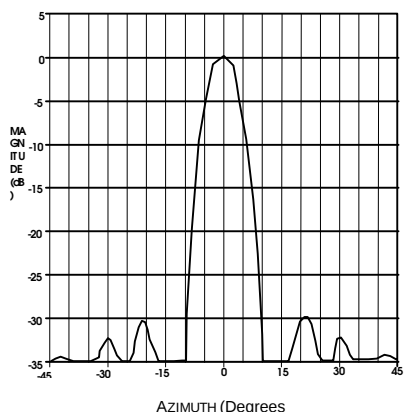


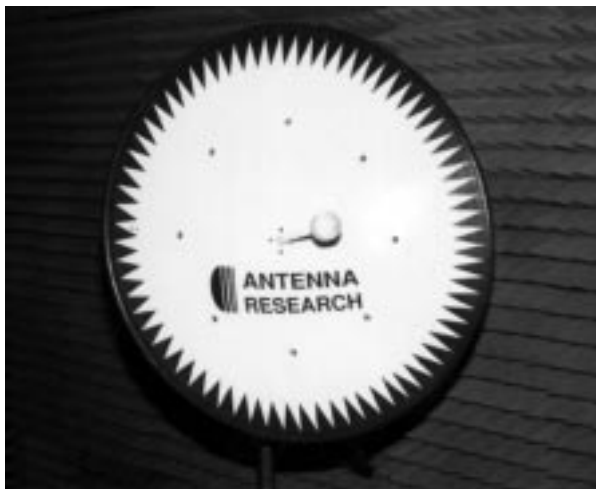
LOW SIDELOBE DUAL POLARIZED REFLECTOR ANTENNA

The **DPRA-2737/A** parabolic antenna is designed with a dual polarized feed optimized in size and phase center in order to get very low sidelobes. This antenna is ideal for **RCS** measurements. The same type of antenna can be available at other frequencies on request.

FREQUENCY BAND:	2.7 - 3.7 GHz
SIDELOBES:	< -25 dB
GAIN:	> 26 dB
-3 dB BEAMWIDTH:	7.5 - 6 degrees
CROSS-POLARIZATION:	< -25 dB
VSWR:	< 2:1



H-PLANE RADIATION PATTERN 3.2 GHz



DPRA-2737/A

35 GHz PARABOLIC DISH ANTENNA

The **PRA-3435/A4** is a high gain parabolic dish antenna with a single symmetric feed. An orthomode transducer (omt) is included to give simultaneous vertical and horizontal linear polarization. The antenna exhibits excellent cross polarization as well as good sidelobe performance.

Frequency Range	34.5 – 35.5 GHz
Antenna Gain	50 dBi min. (@ 35 GHz)
Antenna 3 dB Beamwidth	0.5°
Peak Power	100 kW
Average Power	100 W
VSWR	2.0:1 max.
Polarization	Dual Linear (vertical & horizontal)
Cross Polarization Isolation	30 dB min. in the 3 dB contour
Antenna Feed Input Flanges	Cover flanges of type UG-599/U
Beam Coincidence	Vertical & horizontal RF beam axis is within 0.1° of each other
Sidelobes	<20 dB below the peak of the boresight main beam
Size	4-foot reflector



PRA-3435/A4 Feed

SPECIFICATIONS: PARABOLIC REFLECTOR ANTENNAS

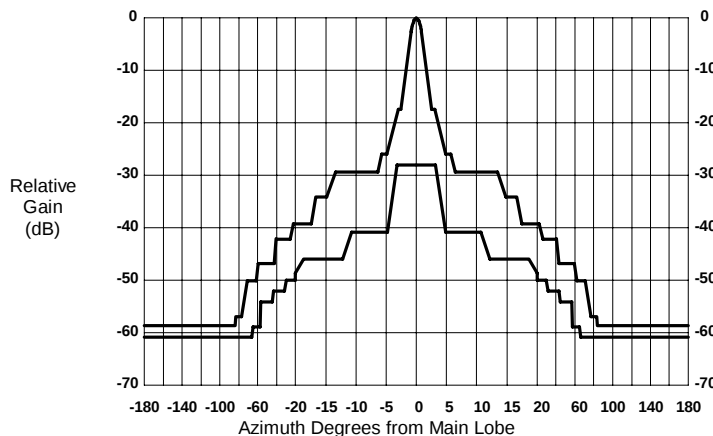
* TYPE: S: Standard Parabolic Reflector D: Deep Dish H: High Performance Antenna with Radome

ARA MODEL	FREQUENCY RANGE (GHz)	REFLECTOR DIAMETER FT (M)	GAIN dB LINEAR			HALF POWER BEAMWIDTH (DEGREES)	TYPE*	VSWR	FRONT TO BACK RATIO (dB)
			LOW	MID	HIGH				
PRA-1719/A2	17.7 - 19.7	2(0.6)	38.4	38.9	39.3	2.1 - 1.8	S	1.15	45
PRA-1719/A4	17.7 - 19.7	4(1.2)	44.3	44.8	45.2	1.0 - .92	S	1.15	55
PRH-1719/A2	17.7 - 19.7	2(0.6)	38.4	38.9	39.3	2.1 - 1.8	H	1.15	62
PRH-1719/A4	17.7 - 19.7	4(1.2)	44.3	44.8	45.2	1.0 - .92	H	1.15	66
PRA-1826/A2	18.0 - 26.5	2(0.6)	38.1	40.1	41.2	2.0 - 1.4	S	1.5	45
PRA-2123/A2	21.2 - 23.6	2(0.6)	40.0	40.4	40.8	1.7 - 1.5	S	1.15	45
PRA-2123/A4	21.2 - 23.6	4(1.2)	45.8	46.2	46.6	.86 - .77	S	1.15	55
PRH-2123/A2	21.2 - 23.6	2(0.6)	40.0	40.4	40.8	1.7 - 1.5	H	1.15	65
PRH-2123/A4	21.2 - 23.6	4(1.2)	45.8	46.2	46.6	.86 - .77	H	1.15	67



PRH-1719/A2

PRH-1719/A2 - CROSS POLARIZATION AND SIDELOBE CURVE



ENVIRONMENTAL RATINGS TABLE

VERTICAL TOWER MOUNT ANTENNAS: REFLECTOR DIAMETERS	SURVIVAL RATINGS		OPERATE WIND	
	WIND MPH (KM/HR)	ICE IN (MM)	MPH (KM/HR)	MAX. DEFLECTION DEGREES
2' and 4'	125 (201)	1 (25)	100(161)	0.1
6' and 8'	125 (201)	1 (25)	70(112)	0.1

In the above table, "Survival Ratings" and "Operate Wind" comply with the definitions of Standards EIA-195-C and EIA-222-D. Beam deflections at "Operate Wind" and material stresses at "Survival Wind" do not exceed allowed limits.