

.76, 1.0 & 1.2M - C & Ku-Band Receive Only

Series 1761, 1111 & 1130

Technical Specifications

Electrical	Series 1761		Series 1111		Series 1130	
	C-Band	Ku-Band	C-Band	Ku-Band	C-Band	Ku-Band
Antenna Size	.76 M (30 in.)		1.0 M (40 in.)		1.2 M (48 in.)	
Operating Frequency (GHz)	3.625-4.2	10.95-12.75	3.625 - 4.2	10.95 - 12.75	3.625 - 4.2	10.95 - 12.75
Midband Gain (+/- .5dB)	28 dBi	37.9 dBi	30.5 dBi	40.5 dBi	32.0 dBi	42.0 dBi
3 dB Beamwidth	7.0°	2.3°	5.3°	1.7°	4.4°	1.4°
Antenna Noise Temperature						
20° Elevation	57 K	49 K	55 K	47 K	54 K	46 K
30° Elevation	56 K	48 K	54 K	46 K	51 K	43 K
First Sidelobe (typical)	-23 dB	-23 dB	-23 dB	-23 dB	-23 dB	-23 dB
Cross-Pol Isolation (Linear)	>30 dB (on axis)		>30 dB (on axis)		>30 dB (on axis)	
VSWR	1.3:1 Max.		1.3:1 Max.		1.3:1 Max.	

Mechanical			
Reflector Material	Glass Fiber Reinforced Polyester SMC		
Antenna Optics	Prime Focus, One Piece Offset Reflector		
Mount Type	Elevation over Azimuth		
Mast Pipe Size	1.5" SCH 40 Pipe (1.90" OD) 4.83 cm.	1.5" SCH 40 Pipe (1.90" OD) 4.83 cm.	2.0" SCH 40 Pipe (2.38" OD) 6.05 cm.
Elevation Adjustment Range	5° to 90° Continuous Fine Adjustment		
Circular Elevation Adjustment Range (Series 1130 only)	12° to 90° Continuous Fine Adjustment		
Azimuth Adjustment Range	360° Continuous		
Shipping Specifications	30 lbs. (14 kg.)	40 lbs. (18 kg.)	55 lbs. (25 kg.)

Environmental Performance		
Wind Loading	Operational Survival	45 mph with 2° pointing error (72 km/h) 125 mph (201 km/h)
Temperature	Operational Survival	-40° to 140° F (-40° to 60° C) -50° to 160° F (-46° to 71° C)
Rain	Operational Survival	1/2" / hr. 2" / hr.
Ice	Operational Survival	----- 1/2" radial
Atmospheric Conditions	Salt, Pollutants and Contaminants as Encountered in Coastal and Industrial Areas	
Solar Radiation	360 BTU/h/ft2	

GENERAL DYNAMICS
SATCOM Technologies

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1000-00 Rev. 05/11