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

Series 1761, 1111 & 1130

Technical Specifications

Electrical	Series 1761 C-Band	Series 1761 Ku-Band	Series 1111 C-Band	Series 1111 Ku-Band	Series 1130 C-Band	Series 1130 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	45 mph with 2° pointing error (72 km/h)
	Survival	125 mph (201 km/h)
Temperature		
	Operational	-40° to 140° F (-40° to 60° C)
	Survival	-50° to 160° F (-46° to 71° C)
Rain		
	Operational	1/2" / hr.
	Survival	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
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