

CLASSIFICATION UNCLASSIFIED		PAGE 4 of 7	
ANTENNA EQUIPMENT CHARACTERISTICS			
1. ☐ a. TRANSMITTING ☐ b. RECEIVING ☒ c. TRANSMITTING AND RECEIVING			
2. NOMENCLATURE, MANUFACTURER'S MODEL NO. (U) 12 x 24 Antenna		3. MANUFACTURER'S NAME (U) Continental Microwave and Tool Company	
4. FREQUENCY RANGE (U) 16.21 GHz - 16.50 GHz		5. TYPE (U) Rectangular Slotted Waveguide	
6. POLARIZATION (U) Left Hand Circular Polarization		7. SCAN CHARACTERISTICS (U)	
8. GAIN (U)		a. TYPE Mechanical	
a. MAIN BEAM 16.21 GHz 36.7 dBi; 16.355 GHz 37.0 dBi; 16.50 GHz at 36.9 dBi		(1) MAX ELEV +90 deg	
b. 1ST MAJOR SIDE LOBE Az: -15.2 deg -15.3 deg -15.5 deg El: -13.5 deg -16.5 deg -15.0 deg (See item 1)		(2) MIN ELEV -90 deg	
9. BEAMWIDTH		(3) SCAN RATE N/A	
a. HORIZONTAL (U) 1.66 deg, 1.62 deg, 1.61 deg		c. HORIZONTAL SCAN	
b. VERTICAL (U) 3.50 deg, 3.60 deg, 3.49 deg		(1) SECTOR SCANNED (U) Mechanical, 180 deg	
		(2) SCAN RATE (U) Programmable, 0 - 35 deg/second	
		d. SECTOR BLANKING (<i>X one</i>) ☐ (1) YES ☒ (2) NO	
10. REMARKS Item 1: Az and El sidelobes for 16.21 GHz, 16.355 GHz, and 16.5 GHz respectively.			
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