



SPECIFICATIONS:	S-BAND	L-BAND
	CH 1 - CH 3	CH 4 - CH 6
FREQUENCY	2.7 - 2.9 GHz	1026 - 1034 MHz 1085 - 1095 MHz
VSWR, NOMINAL:	1.20:1	1.20:1
VSWR WOW, MAX:	.05	.07
INSERTION LOSS, dB MAX:	(CH 1) - 0.20 dB (CH 2) - 0.50 dB (CH 3) - 0.75 dB	0.75 dB
LOSS DIFFERENCE BETWEEN CHANNELS, MAX:	N/A	0.2 dB
ADDITIONAL LOSS DIFFERENCE BETWEEN CHANNELS, WITH ANTENNA ROTATION, MAX:	N/A	0.05 dB
PEAK POWER, UNPRESSURIZED:	(CH 1) - 1.32 MW WITH A 1.3:1 VSWR LOAD (CH 2 & 3) - 1.0 KW	5 KW
DUTY CYCLE	0.0012	0.05
PHASE SHIFT, MAX:	5 DEGREES	
PHASE SHIFT BETWEEN ANY CHANNEL, MAX:	N/A	2.5 DEGREES
ADDITIONAL PHASE SHIFT BETWEEN ANY CHANNEL, WITH ANTENNA ROTATION, MAX:	N/A	0.75 DEGREES
ISOLATION, MIN:	50 dB	
CONNECTOR, CH 2 - CH 6	TYPE 'N'	
WEIGHT, MAX:	160 LBS	
ROTATION SPEED (RPM):	12.5	
LIFE:	50,000 HOURS	
BRUSH LIFE:	25,000 HOURS	
MTBF:	200,000 HOURS	
PRESSURE:	15 PSIG	
LEAK RATE (IN <sup>3</sup> /MIN)	1 @ -10C TO +70C 3 @ -50C TO -11C	
TEMPERATURE, OPERATING:	-50C TO +70C	
BASIC MATERIAL:	ALUMINUM	
ALTITUDE:	0-10,000 FEET	
SLIP RING:	20 CHANNEL, 120 VDC, 5 AMPS, DC - 60 HZ	
ENCODER:	SUPPLIED AND INSTALLED BY CUSTOMER	

- NOTES:
- EXTERNAL FINISH: MASK SURFACES MARKED ∇
  - CHEMICAL FILM PER MIL-DTL-5541, TYPE I OR II, GRADE C, CLASS 3.
  - EPOXY PRIMER PER MIL-PRF-23377, TYPE I (0.0007 IN. THICK MAX.)
  - URETHANE COATING PER MIL-PRF-85285 COLOR INTERNATIONAL ORANGE, COLOR # 12197 PER FED-STD-595 (0.0020 ± 0.0006 THICK)

THIRD ANGLE PROJECTION	DIAMOND ANTENNA & MICROWAVE CORP LITTLETON, MA 01460		
TITLE:	6 CHANNEL ROTARY JOINT W/SLIP RING		
SIZE:	CAGE CODE:	DRAWING NUMBER:	
D	01882	CAT 26102-0	
SCALE 1.25:1	WEIGHT (EST.):	SHEET 1 OF 1	

DIMENSIONS ARE IN INCHES. REMOVE ALL BURRS AND SHARP EDGES .005 MAX. UNLESS OTHERWISE SPECIFIED. SURF FINISH 63. TOLERANCES ARE: FRACTIONS DECIMALS ANGLES 2/164 3 PLACES 0.010 2/12

INTERPRET DIMENSIONS & TOLERANCES PER ASME Y14.5M