



**W/G AND COAX SPECIFICATIONS**

	CH 1	CH 2	CH 3	CH 4	CH 5	CH 6	CH 7	CH 8	CH 9
FREQUENCY (GHz):	2.7 TO 2.9	2.7 TO 2.9	2.7 TO 2.9	1.01 TO 1.11	1.01 TO 1.11	1.01 TO 1.11	.735 TO .745	.735 TO .745	.735 TO .745
VSWR (MAX):	1.2:1	1.3:1	1.3:1	1.3:1	1.3:1	1.3:1	1.5:1	1.5:1	1.5:1
VSWR WOW (MAX):	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06
INSERTION LOSS (dB MAX):	0.15	0.90	1.00	0.80	0.80	0.80	1.5	1.5	1.5
PHASE WOW:	-	1°	1°	1°	1°	1°	1°	1°	1°
PEAK POWER (KW):	35	5	5	15	15	15	5	5	5
MEAN POWER:	3000W	75W	75W	200W	200W	200W	75W	75W	75W

- PHASE TRACKING (L-BAND COAX ONLY): ±2° MAX. BETWEEN CHANNELS 4, 5 & 6
- ISOLATION: 60dB BETWEEN CHANNELS
- WEIGHT: 92 LBS MAX [42 KG] (APPROX WEIGHT 75 LBS)
- TEMPERATURE (OPER): -40° TO 55°C (OPER) -40° TO 70°C (STORAGE)
- PRESSURE: POSITIVE PRESSURE TO 2 PSI
- LEAKAGE: 25cc/min MAX @ 5 PSI ACROSS OPER TEMP RANGE @ 10,000 FT ABOVE SEA LEVEL
- ROTATION RATE: 15 RPM NOMINALLY
- TORQUE: 5 FT-LBS MAX
- LIFE EXPECTANCY: 50,000 HOURS @ 15 RPM MAX
- PAINT: TBD

MASK AREA INDICATED BY:  $\Delta$  (NO PAINT ON CONNECTORS OR COVERS)

MARKING: LABELS TO INCLUDE: DIAMOND PART NO., REVISION, SERIAL NUMBER

**ROLL-RING SPECIFICATIONS:**

NO. OF CHANNELS:	19 (ALL CHANNELS IDENTICAL)
VOLTAGE:	120 VAC/24 VDC
CURRENT:	10 AMPS
ELECTRICAL ISOLATION:	500 MEGAOHMS @ 500 VDC BETWEEN ANY 2 CHANNELS

- NOTES:
- UNIT IS MODE S COMPLIANT.
  - ALL DIMENSIONS SHOWN AS REFERENCE ARE SUBJECT TO CHANGE.
  - ROHS COMPLIANT

THIRD ANGLE PROJECTION

DIMENSIONS ARE IN INCHES. REMOVE ALL BURRS AND SHARP EDGES .005 MAX, UNLESS OTHERWISE SPECIFIED, SURF FINISH 63 TOLERANCES ARE:

FRACTIONS	DECIMALS	ANGLES
±1/64	2 PLACES ±.03	±1/2°
	3 PLACES ±.010	

INTERPRET DIMENSIONS & TOLERANCES PER ASME Y14.5M

**DIAMOND ANTENNA & MICROWAVE CORP**  
LITTLETON, MA 01460

TITLE: **MAIN ASSEMBLY**

SIZE: C	CAGE CODE: 01882	DRAWING NUMBER: CAT 10-2920-0
SCALE: 1:4	WEIGHT (EST.):	SHEET 1 OF 1