



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: Δ (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:

1. UNIT IS MODE S COMPLIANT.
2. ALL DIMENSIONS SHOWN AS REFERENCE ARE SUBJECT TO CHANGE.
3. 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 2 PLACES ±.05
DECIMALS 3 PLACES ±.010
ANGLES ±1/2

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