THIRD ANGLE PROJECTION
TOLERANCES PER ASME Y14.5M

DIAMOND ANTENNA & MICROWAVE CORP
LITTLETON, MA  01460

TITLE:

SIZE:

DRAWING  NUMBER:

CAGE CODE:

SCALE:

WEIGHT (EST.):

INTERPRET DIMENSIONS &

1:4 SHEET

UNIT IS MODE S COMPLIANT.

S- BAND
CHAN 1
CHAN 2
CHAN 3
CHAN 4
CHAN 5
CHAN 6

L-BAND
CHAN 1
CHAN 2
CHAN 3
CHAN 4
CHAN 5
CHAN 6

DUAL 13 BIT ENCODERS
(CUSTOMER SUPPLIED)

DO NOT PAINT COVERS

UNIT IS MODE S COMPLIANT.

ROHS COMPLIANT

SPECIFICATIONS

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

VSWR (MAX): 1.2:1 1.3:1 1.3:1 1.00 0.80 0.80

PHASE TRACKING
& MODE COAST (ONLY):

-1º MAX BETWEEN CHANNELS ± 1º MAX BETWEEN CHANNELS

ISOLATION

-1º MAX BETWEEN CHANNELS

TEMPERATURE RANGES:

-40º C TO +70º C

ACIDITY: YES

PRESSURE: POSITIVE PRESSURE TO 2 PSI

Lubrication:

1/2# EP #2 GREASE OR ISO 220 GREASE

ROTATION RATE:

15 RPM MAX

LIFE EXPECTANCY:

50,000 HRS @ 15 RPM MAX

TORSION:

1/2# EP #2 GREASE

FINISH:

TBD

MARKING AREA INDICATED ON:

A

DO NOT PAINT CONNECTORS OR CONNECTOR COVERS

MARKED:

LABEL 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

SELECTRICAL ISOLATION: 500 MEGOHMS @ 500 VDC BETWEEN ANY 2 CHANNELS

PHASE TRACKING (L-BAND COAX ONLY): ±2º MAX. BETWEEN CHANNELS 4, 5 & 6

ISOLATION: 60dB BETWEEN CHANNELS

WEIGHT: 85 LBS MAX [32.6 Kg] (APPROX WEIGHT 68 LBS)

TEMPERATURE (OPER): -40º C TO 55º C

(OPER Temp Range)

TEMPERATURE (STORAGE): -40º C TO 70º C

HUMIDITY (RH): 100%

PRESSURE: POSITIVE PRESSURE TO 2 PSI

LEAKAGE: 25cc/min MAX @ 5 PSI ACROSS OPER TEMP RANGE @ 10,000FT

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