DUAL CHAN RJ WITH SLIP RING

RODIN TOLERANCES PER ASME Y14.5M

DIAMOND ANTENNA & MICROWAVE CORP
LITTLETON, MA  01460

DIMENSIONS ARE IN INCHES.

REMOVE ALL BURRS AND SHARP EDGES .005 MAX, UNLESS OTHERWISE SPECIFIED, SURF FINISH 63

FRACTIONS

DECIMALS

ANGLES

1/64          2 PLACES

.03

.010

3 PLACES

1.500

.78

.88

EQ SP AS SHOWN ON B.C.

8X φ .141 +.005 THRU ALL

EQ SP AS SHOWN ON B.C.

2X 48" SLIP RING BUNDLE
ON A 2.220 BC (.16 WIDE)

CHANNEL 1

2X SMA JACK

2X 36" SLIP RING BUNDLE
ON A 3.06 BC
(φ .375 APPROX)

CHANNEL 2

2X WR28 FLAT FACE FLANGE
W/ 4-40 SPIRALOCK INSERTS

2X 36" SLIP RING BUNDLE
ON A 3.06 BC
(φ .375 APPROX)

RODIN JOINT SPECIFICATIONS

ELECTRICAL

Electrical

Frequency (GHz)  DC - 8.4  29.0 - 29.5  29.5 - 30.0  30.0-31.0

VSWR (Max)  1.5:1  2.0:1  1.7:1  1.4:1

Insertion Loss  0.75 dB max  1.0 dB  0.85 dB  0.7 dB

Peak Power Max (W)  25  50  50  50

ENVIRONMENTAL

Altitude  15,000 ft max

Operating Temp.  -40°C to +71°C

Storage Temp.  -57°C to +95°C

Weight  1 lbs max (w/o Slip Ring)

Humidity  100% Condensing

Pressure  None

Seals  Weatherized

Torque  ≤ 150 in-oz (.77 ft-lb)

Rotation  Bi-directional

Speed  60 rpm

Material  Aluminum

Finish  Chromate per MIL-C-5541, CL 3

Label

PART NO.  PART NAME

DRAWING NO.  SERIAL NO.

MFR. CODE  MFR. NAME

SLIP RING SPECIFICATIONS

1) Number of circuits: 35 rings, signal to 2 amps.
2) Voltage: capable of withstanding 300V, 60 Hz for 30 seconds.
3) Insulation Resistance: 500 Megohms min. @ 500 VDC.
4) Dynamic Resistance: 5 milliohms @ 2 rpm with a current flow of 50 ma.
5) Circuit Resistance: 50 milliohms max. excluding leads lengths.
6) Speed: up to 500 rpm max. intermittent.
7) Life: 10 million revolutions.