TOLERANCES PER ASME Y14.5M

INTERPRET DIMENSIONS & TOLERANCES PER ASME Y14.5M

LITTLETON, MA  01460
DIAMOND ANTENNA & MICROWAVE CORP

THIRD ANGLE PROJECTION

SLIP RING SPECIFICATIONS:

CONTACT MATERIAL: PRECIOUS METAL
SHAFT: STAINLESS STEEL 300 SERIES
HOUSING: ALUMINUM, CHROMATE PER MIL-C-5541
ROTATION: BI DIRECTIONAL
INSULATION: RESISTANCE 500 MEGAOHMS @ 500 VDC
DIELECTRIC STRENGTH: 500 RMS @ 60 GHz
CIRCUIT DESCRIPTION: 35 CIRCUITS, 3 A MAX
CONTACT RESISTANCE (NOISE): 20 MILLIOHMS MAX

ROTOR JOINT DESIGN SPECIFICATIONS:

FREQ. (GHz):  DC-21.2
VSWR (MAX):  1.75:1
VSWR WOW (MAX):  0.07
INS LOSS (MAX):  .75 dB (2.25 dB WITH CABLE)
INS LOSS WOW (MAX):  .15 dB
POWER, PK. (MAX):  5 KW
POWER, AVG.@ (1 GHz):  200 W

ROTATIONAL SPEED:  50 RPM
TORQUE:  4 IN OZ MAX, 2 IN OZ NOM
LIFE:  5,000 HOURS @ 50 RPM
WEIGHT:  2LB 10OZ
WEATHERIZED:  DIAMOND PN & SN
MARKING:  DIAMOND PN & SN

CONTACT MATERIAL: PRECIOUS METAL
SHAFT: STAINLESS STEEL 300 SERIES
HOUSING: ALUMINUM, CHROMATE PER MIL-C-5541
ROTATION: BI DIRECTIONAL
INSULATION: RESISTANCE 500 MEGAOHMS @ 500 VDC
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SING E CHAN R/J, WITH 35 CHAN SLIP RING

2X SLIP RING BUNDLE 72" LG

4X
\[ \phi = 0.141 \]

\[ (0.265) \]

\[ \phi = 2.53 \]

\[ 1.80 \pm 0.01 \]

\[ 2.60 \pm 0.02 \]

\[ 1.840 \pm 0.002 \]

\[ WD SLOT X \psi = 0.12 \]

\[ 141 FLEXIBLE CABLE SMA MALE \]

\[ 2X SLIP RING BUNDLE \]

\[ 0.126 \pm 0.002 \]

\[ \psi = 0.12 \]

\[ 0.450 \]

\[ 0.19 \]

\[ 2X SLIP RING BUNDLE \]

\[ SMA FEMALE \]

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