



**SPECIFICATIONS - ROTARY JOINT:**

	<b>WR-187 WAVEGUIDE CHANNEL</b>
FREQUENCY (GHz):	5.6-5.65
VSWR (MAX.):	1.15:1
VSWR WOW (MAX.):	1.03
INSERTION LOSS (dB) (MAX.):	0.15
INSERTION LOSS WOW (dB MAX):	±.05
PEAK POWER (KW):	400*
AVERAGE POWER (W):	2,000*

(\*) @ 7.3 PSIG MIN. PRESSURE AND MAX. OUTPUT MISMATCH OF 1.5:1

**SPECIFICATIONS - MECHANICAL/ENVIRONMENTAL:**

PRESSURIZATION:	* 7.3 PSIG (0.05 Mpa) [MINIMUM REQUIRED]
LEAK RATE:	5 CC/MINUTE MAX.
TORQUE:	22 IN-LB MAX. (2.5 Nm)
ROTATION RATE:	12 RPM (MAX)
WEIGHT:	15.4 LBS (7 KG) MAX
TEMPERATURE (OPER):	-40°C TO +70°C
TEMPERATURE (STORAGE):	-55°C TO +85°C
LIFE:	30,000,000 REVOLUTIONS
BASIC MATERIAL:	ALUMINIUM ALLOY
FINISH:	TBD

LABEL: APPLY DIAMOND STD. LABEL AS SHOWN  
 LABEL IS TO INCLUDE THE FOLLOWING AS A MINIMUM:  
 PT# 51-546-0  
 S/N: \_\_\_\_\_  
 DATE CODE: \_\_\_\_\_

**ROHS COMPLIANT**

2X 15-SKT 'D' SUBMINIATURE CONNECTORS DA-15S

32 CHAN SLIP RING

CHANNELS 1-11: 85V/3A PULSED DC-SIGNALS  
 CHANNELS 12-20: 15V/100mA  
 CHANNELS 21-32: 85V/3A. DC/AC

**NOTES:**

- P1 & P2 CONNECTORS TO BE PROVIDED AND MOUNTED BY CUSTOMER. ALL STATOR CABLE LEADS TO BE MARKED WITH APPROPRIATE ID NUMBERS.

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: **ROTARY JOINT, WR-187, "L" STYLE**

SIZE: <b>C</b>	CAGE CODE: <b>01882</b>	DRAWING NUMBER: <b>CAT 51-546-0</b>
SCALE: <b>3:4</b>	WEIGHT (EST.):	SHEET <b>1 OF 1</b>