



DESIGN SPECIFICATIONS

ELECTRICAL

FREQUENCY (GHz) :	7.9 - 8.4
VSWR (MAX) :	1.2:1 MAX
VSWR WOW (MAX) :	.05
INSERTION LOSS (MAX) :	.20 dB
INSERTION LOSS WOW (MAX) :	.05 dB
POWER, AVG : *	5 KW

* FLANGE TEMPERATURE MUST BE MAINTAINED AT 70° C MAX

MECHANICAL & ENVIRONMENTAL

ROTATIONAL SPEED :	1 RPM MAX
TEMPERATURE, OPERATING :	-32° C TO +53° C
TEMPERATURE, STORAGE :	-60° C TO +75° C
HUMIDITY (OPERATING) :	UP TO 95% NON-CONDENSING
HUMIDITY, STORAGE :	UP TO 100% CONDENSING
ALTITUDE, OPERATING :	UP TO 10,000 FT ABOVE MSL
ALTITUDE, STORAGE :	UP TO 40,000 FT ABOVE MSL
SOLAR LOADING :	1120 W/M ²
SEALED :	100% WATERPROOF REGARDLESS OF POSITION
LEAKAGE :	0.05 SCFH (24 CC/MIN) @ 1 PSIG
PRESSURE :	1 PSIG DRY AIR
TORQUE :	70 OZ-IN MAX
WEIGHT :	3.3 LBS TYP., 10 LBS MAX
MATERIAL :	ALUMINUM ALLOY PRIMARILY
FINISH :	TBD
	(MASK WHERE INDICATED BY Δ)

MARKING : DIAMOND STANDARD LABEL TO INCLUDE
DIAMOND PART NO. & SER. NO.

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 DECIMALS ANGLES
 $\pm 1/64$ 2 PLACES $\pm .03$ $\pm 1/2$
 $\pm 1/64$ 3 PLACES $\pm .010$

INTERPRET DIMENSIONS & TOLERANCES PER ASME Y14.5M

DIAMOND ANTENNA & MICROWAVE CORP
LITTLETON, MA 01460

TITLE: **SINGLE CH, I-STYLE WR137 R/J**

SIZE: C	CAGE CODE: 01882	DRAWING NUMBER: CAT 32-645-0
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SCALE: 1:1	WEIGHT (EST.):	SHEET 1 OF 1
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