2 CHANNEL ROTARY JOINT, WR-187

DIAMETER ANTENNA & MICROWAVE CORP
LITTLETON, MA  01460

TITLE: 2 CHANNEL ROTARY JOINT, WR-187
SIZE: 2 CHANNEL ROTARY JOINT, WR-187
DRAWING NUMBER: 2 CHANNEL ROTARY JOINT, WR-187
CAGE CODE: 2 CHANNEL ROTARY JOINT, WR-187
SCALE: 1:1
WEIGHT (EST.): 1 OF 1 SHEET

NOTES:
1. ONLY ONE CHANNEL OPERATING AT FULL POWER
OR BOTH CHANNELS OPERATING AT ONE-
HALF POWER SIMULTANEOUSLY.
2. POWER LEVELS BASED ON 1.5:1 OUTPUT MISMATCH

MATERIAL: ALUMINUM ALLOY
FINISH: TBD
SPEED: 8 RPM
PRESSURE: 10 PSI (69 bar) (MINIMUM), 15 PSI (101 bar) (PREFERRED)
LEAK RATE: <0.000,000 10-3 PSI-in/min (0.000 10-3 mbar-l/min) (OPERATING)
<0.000,000 10-3 PSI-in/min (0.000 10-3 mbar-l/min) (STORAGE)
MAINTENANCE INTERVAL: 10,000,000 revs
LABEL: APPLY DIAMOND STD. LABEL AS SHOWN
LABEL TO INCLUDE THE FOLLOWING AS A MINIMUM
PT # 22120-0
S/N

ENCODER MTG FACE

ENCODER MTG FACE

6X - M6 X 1.0 THREADED INSERTS

LOCATE DIAMOND STD. LABEL HERE

VSWR <1.15:1 <1.3:1
VSWR WOW 0.10 0.10
INSERTION LOSS <0.25dB <0.4dB
INSERTION LOSS WOW <±0.05dB <±0.05dB
PEAK POWER 350kW 175kW 1
MEAN POWER 600w 300w 1 & 2

NOTES:
1. ONLY ONE CHANNEL OPERATING AT FULL POWER
OR BOTH CHANNELS OPERATING AT ONE-
HALF POWER SIMULTANEOUSLY.
2. POWER LEVELS BASED ON 1.5:1 OUTPUT MISMATCH

SIGNAL NAME W IRING NUMBER OF VOLTAGE CURRENT FREQUENCY IMPEDANCE VSWR INS. POW ER
AC POWER 230/400(L1,L2,L3,N,PE) VACDC POWER POWER 1 24 VDC 6ADC GROUND GROUND 1
SHIELD 1 1W
CC 1 2.0:1 3dB MAX MAX
SPARE SIGNALS TTL/24 V 3 5-24 V 100 KHz SPARE SIGNALS (GROUND) GROUND 3
SIGNALS (SHIELD) SHIELD 1 CANBUS 1 TWISTED PAIR W/GROUND 3 ± 10 V 5 MHz 120 +/-10 OHMS 2.0:1 3dB MAX
CANBUS 2 TWISTED PAIR W/GROUND 3 ± 10 V 5 MHz 120 +/-10 OHMS 2.0:1 3dB MAX
CANBUS SHIELD SHIELD 1 TOTAL=24

50 OHMS
60 MHz COAX

POWER 5 6A

3X - M6 X 1.0 THREADED INSERTS

3X ø 127 M6U

SEC. A - A
SCAL. 1 : 1

LOCATE DIAMOND STD. LABEL HERE

ENCODER MTG FACE