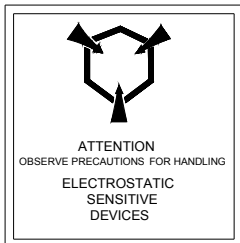


NOTES:

1. MATERIAL: KOVAR PER MIL-I-23011, CLASS 1
2. FINISH: GOLD PLATE PER MIL-G-45204, TYPE III



| REVISIONS | | | |
|-----------|-------------|------|----------|
| SYM | DESCRIPTION | DATE | APPROVED |
| | | | |
| | | | |

SPECIFICATIONS

| | |
|--|-----------------|
| RF INPUT FREQUENCY (GHz): | 1.0 TO 18.0 GHz |
| OPEN CIRCUIT SENSITIVITY: | 600 mV/mW MIN. |
| INPUT POWER RANGE: | TSS TO -5.0 dBM |
| OUTPUT VOLTAGE FLATNESS vs FREQUENCY: | ±1.3 dB |
| RF INPUT VSWR: | 2.8:1 MAX. |
| TSS: | -51 dBM MIN. |
| OUTPUT IMPEDANCE: | 120 OHMS TYP. |
| NOMINAL VIDEO CAPACITANCE: | 20 pF |
| MAX. CW RF INPUT: | +17 dBM |
| OPERATING TEMP. RANGE: | -55°C TO +100°C |
| STORAGE TEMP. RANGE: | -65°C TO +110°C |

SPECIFICATION NOTES:

1. SENSITIVITY MEASURED AT -20dBm, LOAD = 30K OHMS
2. VSWR MEASURED AT -20dBm, LOAD = 100 OHMS
3. VIDEO IMPEDANCE MEASURED AT -20dBm
4. OUTPUT POLARITY IS NEGATIVE. FOR POSITIVE OUTPUT ADD "P" TO PART NUMBER.
5. TSS BASED ON 2 MHz VIDEO BANDWIDTH AND 2 dB AMPLIFIER NF.

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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON FINISH: RMS63
ANGLES: ±1/2° FRACTIONS: ±1/64
3 PLACE DECIMALS: ± .005
2 PLACE DECIMALS: ± .01
1 PLACE DECIMALS: ± .1
FILLETS: .005R MAX
REMOVE BURRS AND SHARP EDGES
TO .005 MAX. R OR CHAMFER

| | | | |
|-------|--------|------|---------|
| DRAFT | R.A.J. | DATE | 8/27/02 |
| CHKD | | | |
| PROD | | | |
| ENGR | R.A.J. | DATE | 8/27/02 |
| QA | | | |

| | | | |
|-----------------------|-----------|------------|--------------|
| TITLE | | | |
| TUNNEL DIODE DETECTOR | | | |
| SIZE | CAGE CODE | DWG NO | |
| A | 1UJ73 | OD930-D108 | |
| SCALE | 4:1 | | SHEET 1 OF 1 |