



NOTES:

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



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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  
FILLETES: .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-D110
SCALE	4:1	SHEET 1 OF 1

REVISIONS

SYM	DESCRIPTION	DATE	APPROVED

SPECIFICATIONS

RF INPUT FREQUENCY (GHz):	2.0 TO 8.0 GHz
OPEN CIRCUIT SENSITIVITY:	800 mV/mW MIN.
INPUT POWER RANGE:	TSS TO -5.0 dBm
OUTPUT VOLTAGE FLATNESS vs FREQUENCY:	±0.5 dB
RF INPUT VSWR:	2.5:1 MAX.
TSS:	-51 dBm MIN.
OUTPUT IMPEDANCE:	120 OHMS TYP.
NOMINAL VIDEO CAPACITANCE:	30 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.