

- 1.0 MONITOR PART NUMBER 1247-01
- 2.0 CLASSIFICATION OSCILLATOR, CRYSTAL, OVEN CONTROLLED
- 3.0 ELECTRICAL CHARACTERISTICS (NOTE 1)
- 3.1 NOMINAL FREQUENCY 13.00MHz
- 3.1.1 CALIBRATION TOLERANCE _____
- 3.1.2 FREQUENCY STABILITY LESS THAN $\pm 5 \times 10^{-8}$ AFTER WARM UP INCLUSIVE OF TEMPERATURE, SUPPLY VOLTAGE CHANGE, AND AGING / YEAR.
- 3.1.3 PHASE NOISE 1 Hz BW MAXIMUM LEVELS
- | | |
|--------|------------|
| 10 Hz | -110dBc/Hz |
| 100 Hz | -130dBc/Hz |
| 1 kHz | -140dBc/Hz |
| 10 kHz | -145dBc/Hz |
- 3.1.4 WARM-UP TIME 5 MIN MAX
- 3.2 WAVE FORM SQUARE WAVE +5V CMOS COMPATIBLE
- 3.2.1 SYMMETRY 40/60 TO 60/40
- 3.2.2 AMPLITUDE 5 VOLTS CMOS LEVELS
- 3.2.3 RISE/FALL TIME 15nSEC 10%/90%
- 3.2.4 LOAD 50pF MAX
- 3.3 VCXO CHARACTERISTICS
- 3.3.1 REF VOLT FOR EXT TUNING (PIN 2) Vref=+4 VDC TO +7VDC/2.0mA MIN
- 3.3.2 CONTROL VOLTAGE RANGE (PIN 1) 0VDC TO Vref
- 3.3.3 TOTAL FREQUENCY CHANGE ± 1 PPM
- 3.3.4 INPUT IMPEDANCE GREATER THAN 2 MEG OHMS
- 3.3.5 SLOPE +0.3 TO +0.5 PPM/V $\pm 10\%$
- 3.3.6 LINEARITY _____
- 3.3.7 MODULATION RATE/RESPONSE _____
- 3.4 POWER INPUT
- 3.4.1 SUPPLY VOLTAGE/CURRENT 12VDC ± 10 /LESS THAN 325 mA ALL CONDITIONS
- 3.5 OVEN ALARM (PIN 6) CMOS COMPATIBLE
- 3.5.1 OPERATING +5 VOLTS
- 3.5.2 NON-OPERATING 0 VOLTS
- 4.0 ENVIRONMENTAL
- 4.1 AMBIENT TEMPERATURE RANGE
- 4.1.1 OPERATION -10°C TO +70°C
- 4.1.2 OPERABLE -20°C TO +70°C
- 4.1.3 STORAGE -40°C TO +70°C
- 4.2 VIBRATION IEC 68-2-06 TEST Fc 10-500Hz-10G
- 4.3 SHOCK IEC 68-2-27 TEST Ea 50g-11ms
- 4.4 CLIMATIC CONDITIONS
- 4.4.1 LOW TEMPERATURE -10°C
- 4.4.2 HIGH TEMPERATURE +70°C
- 4.4.3 LOW RELATIVE HUMIDITY 5%
- 4.4.4 HIGH RELATIVE HUMIDITY 95%
- 4.4.5 LOW ABSOLUTE HUMIDITY 1 g/m³
- 4.4.6 HIGH ABSOLUTE HUMIDITY 29 g/m³
- 4.4.7 LOW AIR PRESSURE 70 kPa
- 4.4.8 HIGH AIR PRESSURE 106 kPa

NOTE 1 — ALL PERFORMANCE FIGURES ARE MEASURED UNDER THE FOLLOWING TEST CONDITION.

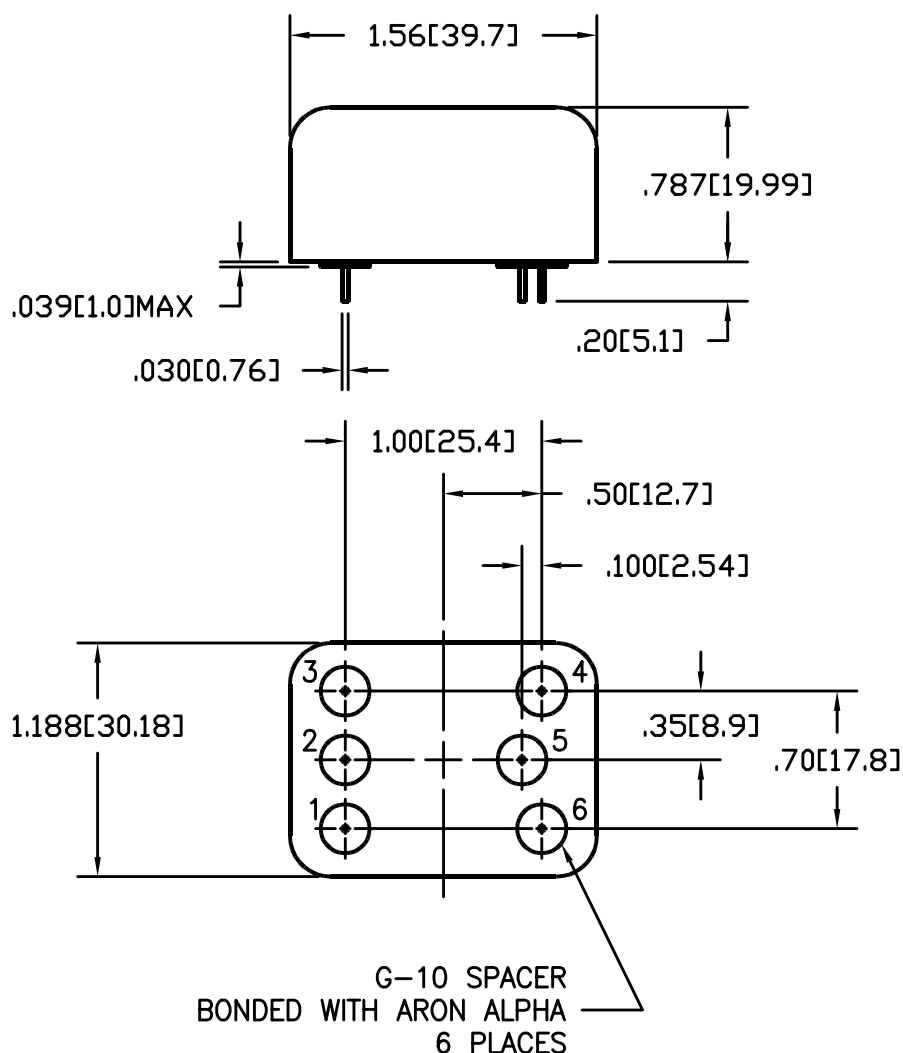
A. AMBIENT TEMP. $\pm 25 \pm C$ EXCEPT PARA 3.1.31.

B. INPUT VOLTAGES: NOMINAL ± 1 EXCEPT PARA 3.1.3.2

SIZE A	CAGE CODE 54331	DWG NO 7532	REV —
SCALE 1/1	CAD FILE S1247012.A13	SHEET 2 of 3	

NOTES:

1. APPLICABLE STANDARDS/SPECIFICATION
ANSI Y14.5M-1982, DIMENSIONS AND TOLERANCES
2. PIN NUMBERS ARE FOR REFERENCE ONLY



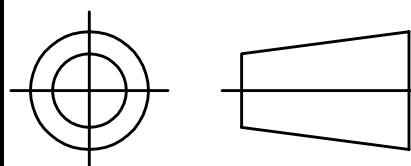
5.0 MECHANICAL

5.1 MATERIAL/FINISH CRS / BRIGHT NICKEL PER QQ-N-290 TYPE II

5.2 PIN CONNECTION

1	<u>CONTROL VOLTAGE</u>	5	<u>GND</u>
2	<u>Vref OUT</u>	6	<u>OVEN ALARM</u>
3	<u>+12 VDC</u>		
4	<u>OUTPUT</u>		

THIRD ANGLE PROJECTION



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