

- 1.0 MONITOR PART NUMBER 7537-01
- 2.0 CLASSIFICATION OSCILLATOR, CRYSTAL VOLTAGE CONTROLLED
- 3.0 ELECTRICAL CHARACTERISTICS (NOTE 1)
- 3.1 NOMINAL FREQUENCY 100.00 MHz
- 3.1.1 CALIBRATION TOLERANCE ±5.0 PPM WITH 2.5 VOLTS OH PIN ONE AT TIME OF SHIPMENT
- 3.1.2 ADJUSTMENT RANGE \_\_\_\_\_
- 3.1.2.1 ADJUSTMENT RESOLUTION \_\_\_\_\_
- 3.1.3 STABILITY
- 3.1.3.1 FREQUENCY vs AMBIENT OSCILLATOR SHALL BE ADJUSTABLE TO NOMINAL FREQUENCY WITHIN ±1 PPM FOR 10 YEARS UNDER ALL CONDITIONS
- 3.1.3.2 FREQUENCY vs VOLTAGE LESS THAN 1 PPM FOR / 5% CHANGE
- 3.1.3.3 FREQUENCY vs LOAD 2 x 10E-7 MAX
- 3.1.3.4 OVERALL STABILITY \_\_\_\_\_
- 3.1.4 PHASE NOISE
- |         |            |
|---------|------------|
| 10 Hz   | = -73 dBc  |
| 100 Hz  | = -95 dBc  |
| 1 kHz   | = -120 dBc |
| 10 kHz  | = -130 dBc |
| 100 kHz | = -135 dBc |
| 1 MEG   | = -140 dBc |
- 3.2 WAVE FORM SINEWAVE
- 3.2.1 HARMONICS -20dBm MIN
- 3.2.2 AMPLITUDE .60 Vp-p MIN / 1.0 Vp-p MAX
- 3.2.3 RISE/FALL TIME \_\_\_\_\_
- 3.2.4 LOAD 50 OHMS
- 3.3 VCOX TRANSFER CHARACTERISTICS
- 3.3.1 TOTAL FREQUENCY CHANGE SEE PARAGRAPH 3.1.3.1
- 3.3.2 CONTROL VOLTAGE RANGE +0.5 TO +4.5VDC
- 3.3.3 TRANSFER COEFFICIENT and SENSE POSITIVE
- 3.3.4 LINEARITY ±20%
- 3.3.5 MODULATION RATE/RESPONSE 5 KHZ TYP, 4 KHZ MIN
- 3.4 POWER INPUT
- 3.4.1 OSCILLATOR VOLTAGE/CURRENT +5.0 VDC ±10% / 50mA NOMINAL
- 4.0 ENVIRONMENTAL
- 4.1 AMBIENT TEMPERATURE RANGE
- 4.1.1 OPERATING -20°C TO +70°C
- 4.1.2 STORAGE -55°C TO +125°C
- 4.2 VIBRATION 10-55Hz 0.080 DA 55Hz -2000Hz 20 Gs
- 4.3 SHOCK 1000 Gs 0.35 ms, 1/2 SINE 3 SHOCKS EACH PLANE
- 4.4 HUMIDITY 85% RH AT 85°C, 1000 HRS
- 4.5 OTHER \_\_\_\_\_

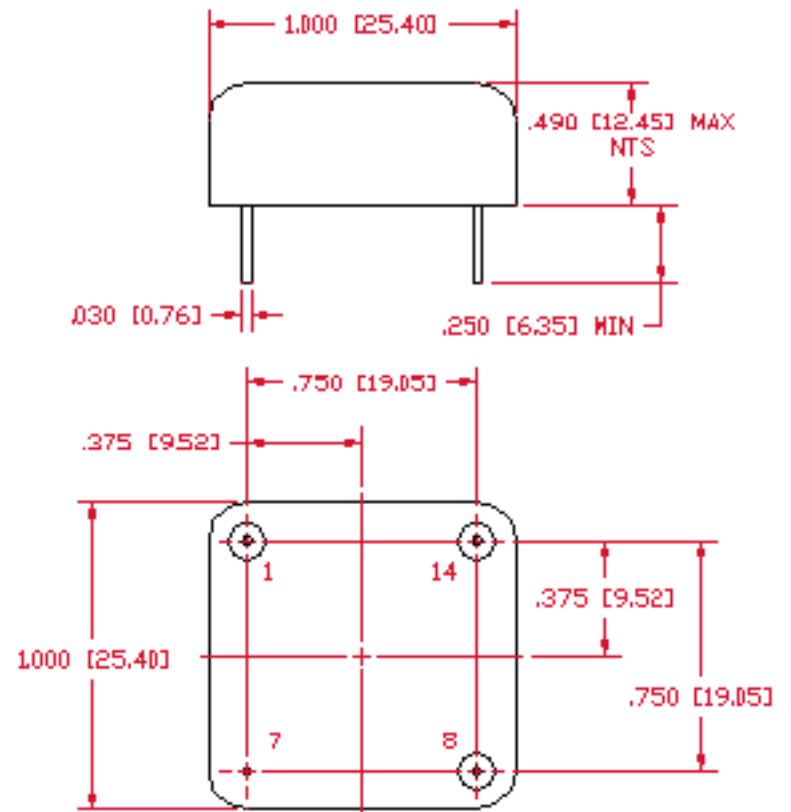
NOTE 1 - ALL PERFORMANCE FIGURES ARE MEASURED UNDER THE FOLLOWING TEST CONDITION

- A. AMBIENT TEMP. +25°C±5°C EXCEPT PARA 3.1.3.1  
 B. INPUT VOLTAGES: NOMINAL ±1% EXCEPT PARA 3.1.3.2.

NOTES:

7537-01

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



- 5.0 MECHANICAL
- 5.1 MATERIAL/FINISH CRS / BRIGHT NICKEL PER
- 5.2 PIN CONNECTION QQ-N-290 TYPE II
- |                  |                   |
|------------------|-------------------|
| 1. <u>Vc</u>     | 8. <u>OUTPUT</u>  |
| 7. <u>GROUND</u> | 14. <u>+5 VDC</u> |

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