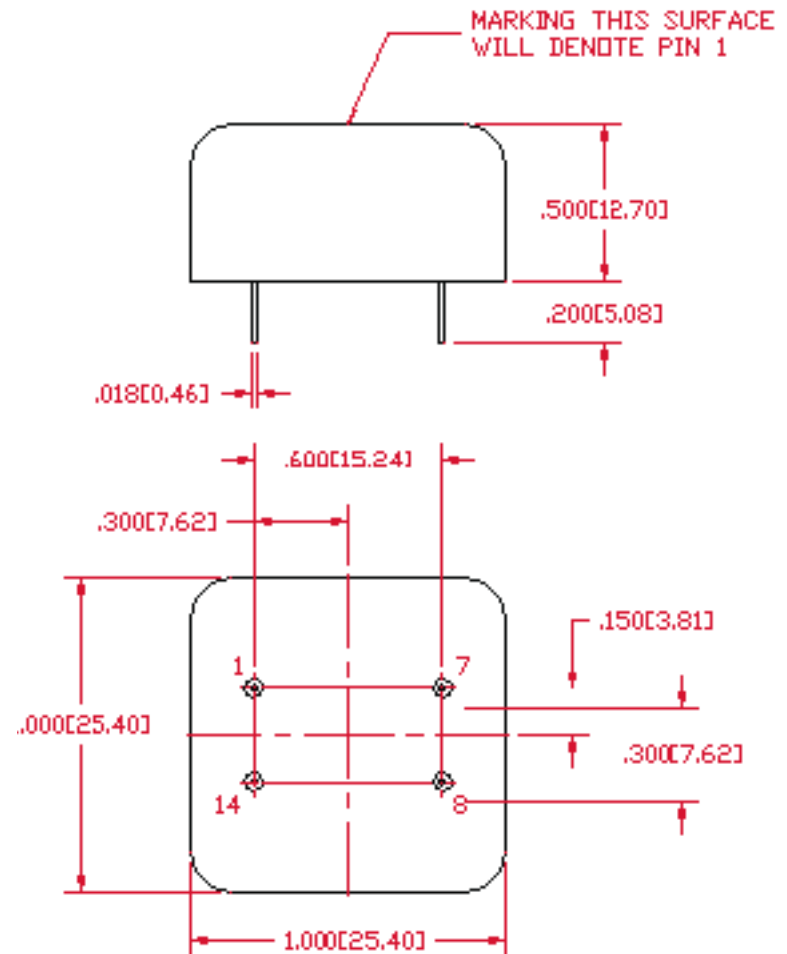


- 1.0 MONITOR PART NUMBER 6728-01
- 2.0 CLASSIFICATION OSCILLATOR, CRYSTAL, VOLTAGE CONTROLLED, HIGH VIBRATION REQUIREMENTS
- 3.0 ELECTRICAL CHARACTERISTICS (NOTE 1)
- 3.1 NOMINAL FREQUENCY 100.00 MHz
- 3.1.1 CALIBRATION TOLERANCE ±15 PPM AT 25°C WITH CONTROL VOLTAGE = +5.0VDC
- 3.1.2 STABILITY
- 3.1.2.1 FREQUENCY vs AMBIENT ±25PPM / 0°C TO +80°C
- 3.1.2.2 FREQUENCY vs VOLTAGE LESS THAN ±0.1 PPM FOR ±5% VCC
- 3.1.2.3 FREQUENCY vs LOAD LESS THAN ±0.1 PPM FOR ±10% LOAD CHANGE
- 3.1.2.4 FREQUENCY vs TIME 3-5 PPM FIRST YEAR / 2 PPM/YR THEREAFTER
- 3.1.2.4.1 SHORT TERM
- 3.1.2.4.2 LONG TERM
- 3.1.2.4.3 PHASE JITTER 8pS
- 3.1.2.4.4 PHASE NOISE -150 dBc AT 10kHz OFFSET
- 3.2 WAVE FORM SINE WAVE
- 3.2.1 HARMONICS -25dBc
- 3.2.2 AMPLITUDE +8 dBm ±2dBm
- 3.2.3 RISE/FALL TIME
- 3.2.4 LOAD 50 OHMS
- 3.3 VCCQ TRANSFER CHARACTERISTICS
- 3.3.1 TOTAL FREQUENCY CHANGE 37.5 PPM/ 0°C TO +80°C
- 3.3.2 CONTROL VOLTAGE RANGE 0.0 VDC TO +10.00 VDC
- 3.3.3 TRANSFER COEFFICIENT and SENSE ±125 PPM POSITIVE SENSE
- 3.3.4 LINEARITY ±20%
- 3.3.5 MODULATION FREQUENCY 1.0KHZ MAX
- 3.3.6 INPUT IMPEDENCE 50K OHMS
- 3.4 POWER INPUT
- 3.4.1 OSCILLATOR VOLTAGE/CURRENT 10.0 VDC / 80mA
- 3.5 CRYSTAL MOUNT 3 POINT CRYSTAL MOUNT
- 4.0 ENVIRONMENTAL
- 4.1 AMBIENT TEMPERATURE RANGE
- 4.1.1 OPERATING 0°C TO +80°C
- 4.1.2 STORAGE -55°C TO +105°C
- 4.2 SOLDERABILITY MIL-STD-202, METHOD 208
- 4.3 RESISTANCE TO SOLDER HEAT MIL-STD-202, METHOD 210, COND E (5 SEC)
- 4.4 LEAD STRENGTH MIL-STD-202, METHOD 211, COND A, 2 LBS MIN
- 4.5 RESISTANCE TO SOLVENTS MIL-STD-202, 215, 5 PCS EA SOLUTION EXCEPT FREDON
- 4.6 MECHANICAL SHOCK MIL-STD-202, METHOD 213, COND A (50g)
- 4.7 VIBRATION MIL-STD-202, METHOD 204, COND A (10G)
- 4.8 SEAL MIL-STD-202, 112, C OF MIL-STD-883, 1014, B
- 4.9 TEMPERATURE CYCLING MIL-STD-202, METHOD 107, COND A-2 (50 CYCLES)
- 4.10 OPERATING LIFE MIL-STD-202, 108, D (1000 HR), AT 85°C, RATED LOAD
- 4.11 ESD MIL-STD-883, METHOD 3015.1 500 V MIN
- 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:

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

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5.0 MECHANICAL

- 5.1 MATERIAL/FINISH CRS / BRIGHT NICKEL PER
- 5.2 PIN CONNECTION QQ-N-280 TYPE II
1. CONTROL VOLTAGE
  7. GROUND
  8. OUTPUT
  14. +10.0 VDC



502 Via del Monte, Oceanside, CA 92054  
 Tel: 760 433-4510 Fax: 434-0255