



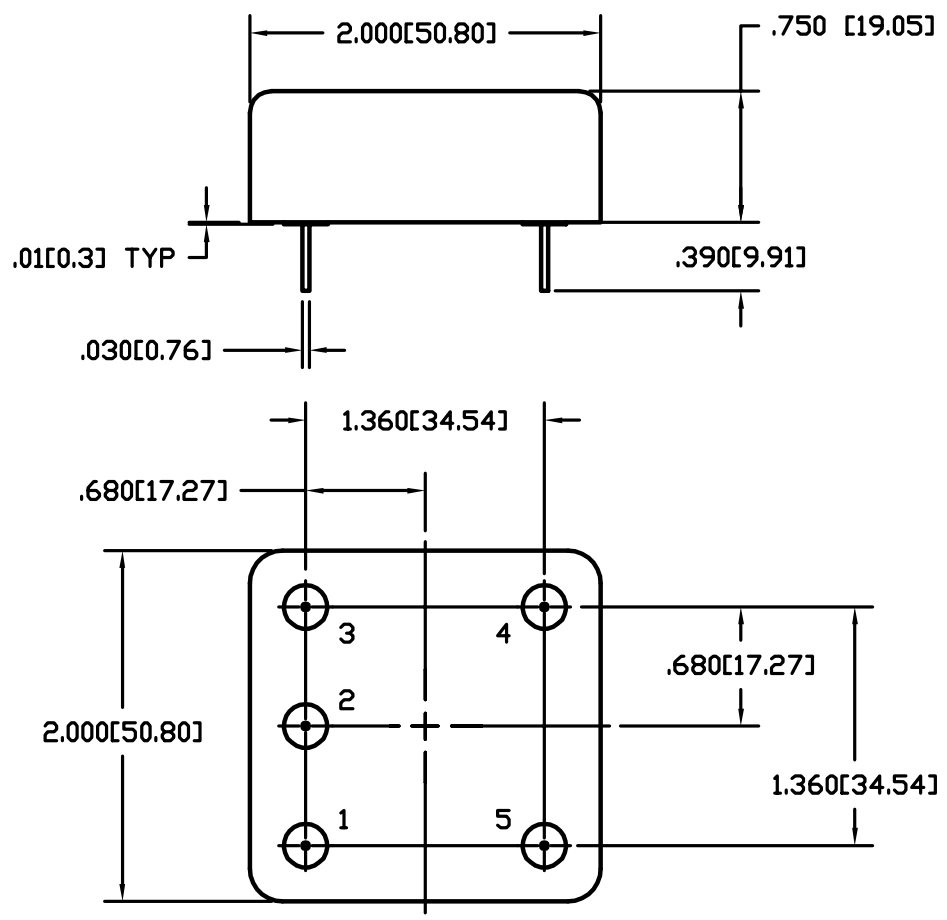
DWG NO 7718  
 SH 2  
 REV A

- 1.0 MONITOR PART NUMBER 1274-01
- 2.0 CLASSIFICATION OSCILLATOR, CRYSTAL, OVEN CONTROLLED, ELECT TRIM
- 3.0 ELECTRICAL CHARACTERISTICS (NOTE 1)
  - 3.1 NOMINAL FREQUENCY 10.000 MHz
    - 3.1.1 FREQUENCY ADJUSTMENT  $\pm 1.0 \times 10E-6$  MIN TRIM BY EXTERNAL VOLTAGE SUPPLIED BY CUSTOMER
    - 3.1.2 STABILITY
      - 3.1.2.1 FREQUENCY vs AMBIENT LESS THAN  $5 \times 10E-9$  / 0°C TO +70°C REF TO +25°C
      - 3.1.2.2 FREQUENCY vs VOLTAGE LESS THAN  $\pm 1 \times 10E-9$  FOR A 10% CHANGE IN SUPPLY
      - 3.1.2.3 FREQUENCY vs LOAD LESS THAN  $\pm 11 \times 10E-9$  FOR A  $\pm 10\%$  CHANGE IN LOAD
      - 3.1.2.4 TIME DOMAIN
        - 3.1.2.4.1 SHORT TERM ALLAN VARIANCE LESS THAN  $1 \times 10E-11$  FOR 1 SEC GATE TIME
        - 3.1.2.4.2 LONG TERM LESS THAN 10uSEC DRIFT IN 4 HRS AFTER DISCIPLINING THE OCXO TO A GPS REFERENCE
      - 3.1.2.5 FREQUENCY vs TIME
        - 3.1.2.5.1 MEDIUM TERM 24 HRS LESS THAN  $\pm 1 \times 10E-9$  AFTER 96 HRS ON TIME
        - 3.1.2.5.2 LONG TERM LESS THAN  $5 \times 10E-8$  FIRST YEAR AFTER 30 DAYS OF CONTINUOUS OPERATION
        - 3.1.2.5.3 RETRACE REFERENCE TO TURN OFF FREQUENCY, WITHIN  $\pm 1 \times 10E-8$  AFTER 60 MINUTES WARM UP FOLLOWING 24 HOURS OFF TIME AT +25°C
        - 3.1.2.5.4 WARM UP TIME LESS THAN 15 MINUTES FROM +25°C FOR FREQUENCY ACCURACY TO BE WITHIN  $\pm 1 \times 10E-7$  OF PRIOR FREQUENCY AFTER 24HRS OFF TIME
    - 3.1.3 PHASE NOISE (SINGLE SIDE BAND, 1 Hz BW)
      - 10 Hz 124 dBc
      - 100 Hz 139 dBc
      - 1 kHz 149 dBc
      - 10 kHz 151 dBc
    - 3.1.4 TRIM CHARACTERISTICS 0.5 PPM/V TYP FOR 0 TO +5.0 VDC IN POSITIVE TUNING SENSE
  - 3.2 WAVE FORM HCMOS
    - 3.2.1 SYMMETRY 50%  $\pm 10\%$
    - 3.2.2 AMPLITUDE LOGIC "0" = 0.5 V MIN / LOGIC "1" = 4.5 V MAX
    - 3.2.3 RISE/FALL TIME 6nSEC
    - 3.2.4 LOAD 15pF
  - 3.3 POWER INPUT
    - 3.3.1 SUPPLY VOLTAGE +12 VDC  $\pm 10\%$
    - 3.3.2 SUPPLY CURRENT
      - 3.3.2.1 WARM UP LESS THAN 3.0 WATTS
      - 3.3.2.2 AFTER WARM UP LESS THAN 1.5 WATTS AT +25°C
- 4.0 ENVIRONMENTAL
  - 4.1 AMBIENT TEMPERATURE RANGE
    - 4.1.1 OPERATING 0°C TO +70°C
    - 4.1.2 STORAGE -55°C TO +85°C
  - 4.2 VIBRATION MIL-STD-202F, METH 204D, TEST COND D, 20G PEAK, 10 TO 2000 Hz
  - 4.3 SHOCK MIL-STD-202B, METH 213B, TEST COND C 100G's, 6mSEC

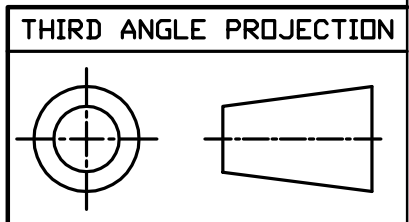
NOTE 1 - ALL PERFORMANCE FIGURES ARE MEASURED UNDER THE FOLLOWING TEST CONDITION  
 A. AMBIENT TEMP. +25°C $\pm$ 5°C EXCEPT PARA 3.1.3.1  
 B. INPUT VOLTAGES: NOMINAL  $\pm 1\%$  EXCEPT PARA 3.1.3.2.

SIZE	CAGE CODE	DWG NO	REV
A	54331	7718	A
SCALE 1/1		CAD FILE S1274A12.A13	SHEET 2 of 3

- 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



- 5.0 MECHANICAL
- 5.1 MATERIAL/FINISH CRS / BRIGHT NICKEL PER QQ-N-290 TYPE II
- 5.2 PIN CONNECTION
1. ELECT TUNE IN
  2. VOLTAGE REF
  3. RF OUTPUT
  4. RF GROUND
  5. B+ SUPPLY



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