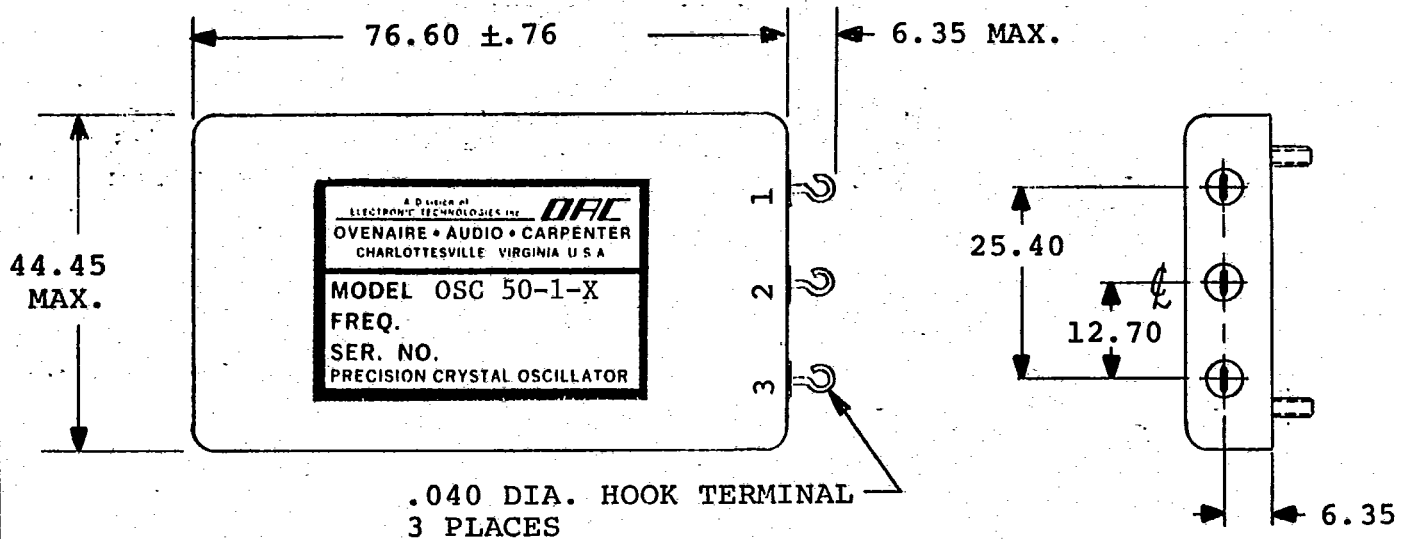
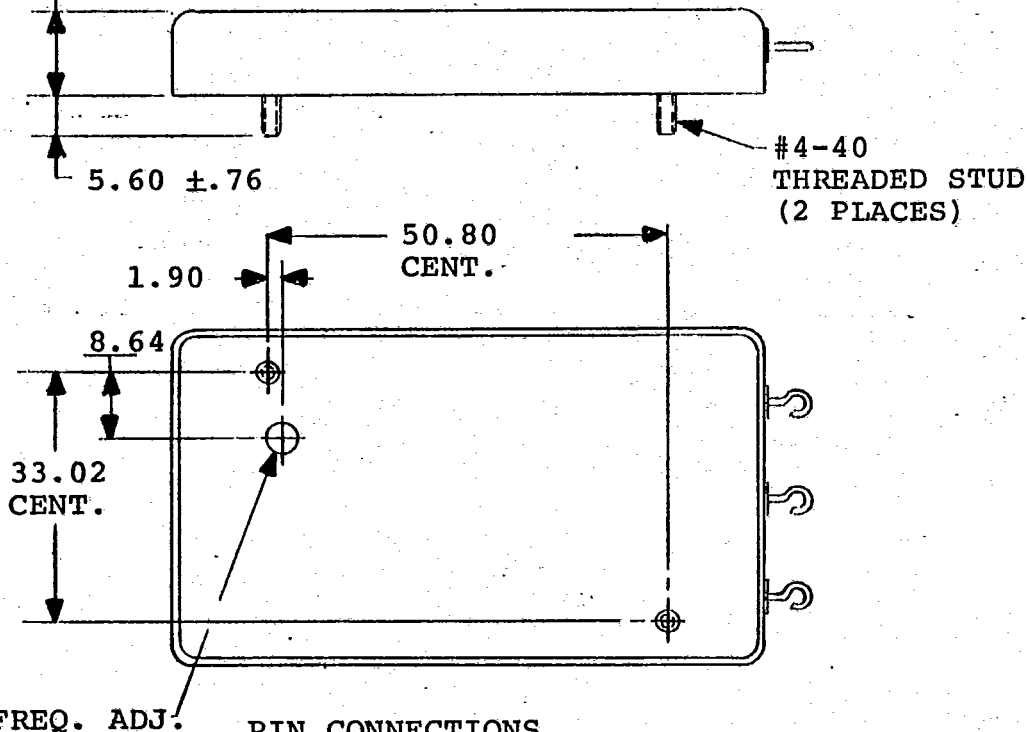


DIMENSIONS IN MILLIMETERS



11.43 MAX.



MM	INCHES
.76	.030
1.90	.075
5.60	.220
6.35	.250
8.64	.340
11.43	.450
12.70	.500
25.40	1.000
33.02	1.300
44.45	1.750
50.80	2.000
76.60	3.016

FREQ. ADJ.

PIN CONNECTIONS

1. Input Voltage
2. Ground
3. Output

ovenaire

CHARLOTTESVILLE, VIRGINIA

NAME CATALOG
LOW FREQUENCY OSCILLATOR

SHT 1 OF 2

OSC 50-1 SERIES

TOLERANCES

UNLESS OTHERWISE SPECIFIED

{	MILLIMETERS ± 0.38
	ANGLES
{	INCH DEC ± 0.015

SCALE 1:1

DWN T.B. 10-18-77

APP'D DAG 10-18-77

MATERIAL: COVER: BRASS

MARKING: DECAL OR
EPOXY INK

FINISH: BRITE NICKEL

SHT. 1 OF 2
OSC 50-1 SERIES

A	NEW DECAL ADDED.	TNT	2/85
LET	REVISION	BY	DATE

T-50-09

THINLINE LOW FREQUENCY OSCILLATOR**A. GENERAL**

This unit is a thinline TCXO PCB Mounting Package, available over a wide frequency range. The unit features a glass AT cut crystal with excellent long term stability with logic output and wide operating temperature range.

B. OUTPUT CHARACTERISTICS

1. Frequency: Any frequency from 2 KHz to 2 MHz.
2. Output Level: "0" Level +0.45 VDC maximum at 4.8 mA sink current
"1" Level +2.4 VDC minimum at 1.2 mA source current
3. Wave Form: Square wave
4. Load: TTL Compatible (3 Loads)
5. Rise Time: 50 nanoseconds typical
6. Fall Time: 50 nanoseconds typical
7. Duty Cycle: 45/55 to 55/45

C. FREQUENCY STABILITY

1. Long Term Aging: ± 10 PPM maximum over 5 years
2. Short Term Stability: 5×10^{-9} RMS per 10 second intervals
3. Voltage Stability: ± 1 PPM per $\pm 5\%$ supply change
4. Temperature Stability: Referenced to +25°C

Part Number	OSC 50-1-1	OSC 50-1-2	OSC 50-1-3	OSC 50-1-4
Temp. Range °C	-40 to +85	-40 to +85	-55 to +100	-55 to +100
Stability	± 50 PPM	± 15 PPM	± 75 PPM	± 25 PPM

D. FREQUENCY ADJUSTMENT

1. Control: Tuning capacitor with screwdriver slot
2. Range: $\pm 20 \times 10^{-6}$ minimum
3. Resolution: Better than ± 1 PPM.

E. POWER INPUT

1. Supply Voltage: +5 VDC $\pm 5\%$
2. Supply Current: 100 milli-amp maximum at 5.0 VDC
3. Alternate Supply Voltages possible on customer request.

F. MECHANICAL CONFIGURATION

1. Standard: See Sht. 1
2. Optional: See Ovensaire Representative for alternate or custom designed mounting.

SHT. 2 OF 2 OSC 50-1 SERIES					ovensaire CHARLOTTESVILLE, VIRGINIA NAME CATALOG LOW FREQUENCY OSCILLATOR SHT 2 OF 2 OSC 50-1 SERIES TOLERANCES UNLESS OTHERWISE SPECIFIED { MILLIMETERS $\pm$ ANGES INCH DEC $\pm$ SCALE DWN d.h. 10-18- APP'D <i>ms</i> 10-18-77 MATERIAL: MARKING: FINISH:
A	REV. TO SHT. 1.	TNT	2/85		
LET	REVISION	BY	DATE		