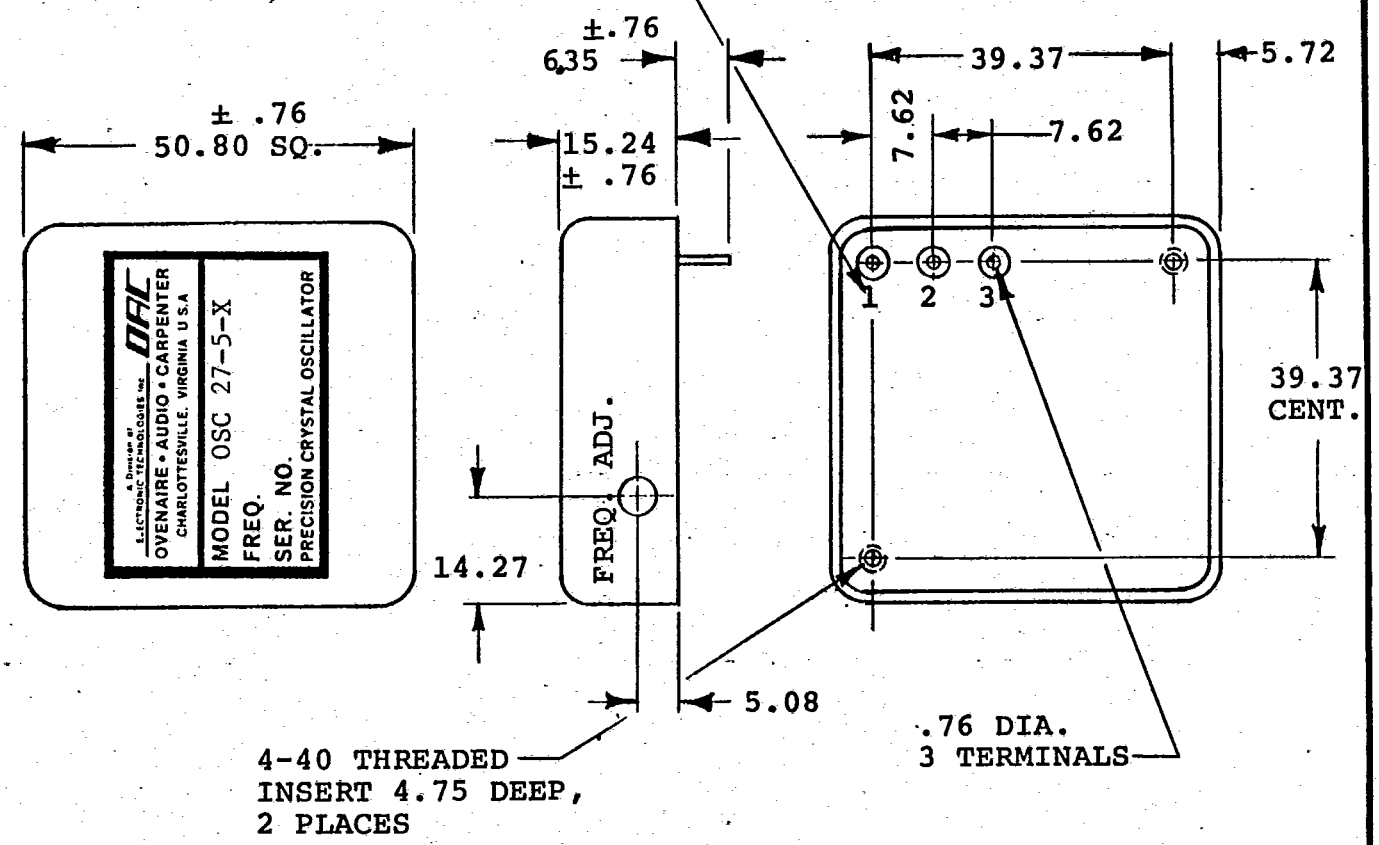
NUMBERS SHOWN FOR REF. ONLY
(NOT STAMPED ON BASE)

DIMENSIONS IN MILLIMETERS



PIN CONNECTIONS
1. 0 VDC & Case Ground
2. +12 VDC
3. R.F. Output

INCHES	MM
.030	.76
.187	4.75
.200	5.08
.225	5.72
.250	6.35
.300	7.62
.562	14.27
.600	15.24
1.550	39.37
2.000	50.80

LET	REVISION	BY	DATE
D	NEW DECAL ADDED.	TNT	2/85
C	REDRAWN, METRIC ADDED	MLW	10.17.77

SHT. 1 OF 2 OSC 27-5 SERIES

ovenaire CHARLOTTESVILLE, VIRGINIA

NAME: CATALOG TCXO

SHT 1 OF 2
OSC 27-5 SERIES

TOLERANCES: UNLESS OTHERWISE SPECIFIED — MILLIMETERS ±0.38; ANGLES; INCH DEC ±.015

SCALE 1:1
DWN M.W. 10-17-77
APP'D DAG 10-17-77

MATERIAL: COVER-BASE: BRASS
FINISH: BRITE NICKEL

MARKING: DECAL OR EPOXY INK

A. GENERAL
This unit is a compact TCXO, less than 2.5 cubic inches, featuring a glass crystal and excellent long term stability with logic output.

B. OUTPUT CHARACTERISTICS
1. Frequency and Part Number: See table below.
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: 30 nanoseconds typical
6. Fall Time: 15 nanoseconds typical
7. Duty Cycle: 40/60 to 60/40 at +1.5 VDC Level

C. FREQUENCY STABILITY

1. Part Numbers	OSC 27-5-1	OSC 27-5-2	OSC 27-5-3
2. Frequency Range (MHz)	2 to 12	2 to 12	2 to 6
3. Aging after 60 days (Max)	1×10^{-6} per year		5×10^{-7}/yr.
* 4. Ambient Range 0°C to +55°C	$\pm 1 \times 10^{-6}$	$\pm 5 \times 10^{-7}$	$\pm 3 \times 10^{-7}$
5. Short Term (10 sec.) RMS	2×10^{-9}	2×10^{-9}	1×10^{-9}
6. Voltage Stability	2×10^{-7}/2%	1×10^{-7}/2%	1×10^{-7}/2%

* Referred to frequency at +25°C

D. FREQUENCY ADJUSTMENT
1. Control: Piston type capacitor with screwdriver slot
2. Range: $\pm 3.5 \times 10^{-6}$ minimum (sufficient for 5 years)
3. Resolution: $\pm 2.5 \times 10^{-8}$ or better

E. POWER INPUT
1. Supply Voltage: +12.0 VDC ± 10% with 2% regulation
2. Supply Current: 25 milli-amp typical
3. Alternate Supply Voltages possible on customer request

F. MECHANICAL CONFIGURATION
1. Standard: See Sht. 1
2. Optional: See Ovenaire Representative for alternate mechanical packages.

LET	REVISION	BY	DATE
D	REV. TO SHT. 1.	TNT	2/85
C	REV. "D", RETYPED	D.H.	10/18/77

SHT. 2 OF 2 OSC 27-5 SERIES

ovenaire CHARLOTTESVILLE, VIRGINIA

NAME CATALOG TCXO

SHT 2 OF 2 OSC 27-5 SERIES

TOLERANCES: UNLESS OTHERWISE SPECIFIED { MILLIMETERS ± ; ANGLES ; INCH DEC ± }

SCALE

DWN d.h. 10-17-

APP'D 10-17-77

MATERIAL:

FINISH:

MARKING: