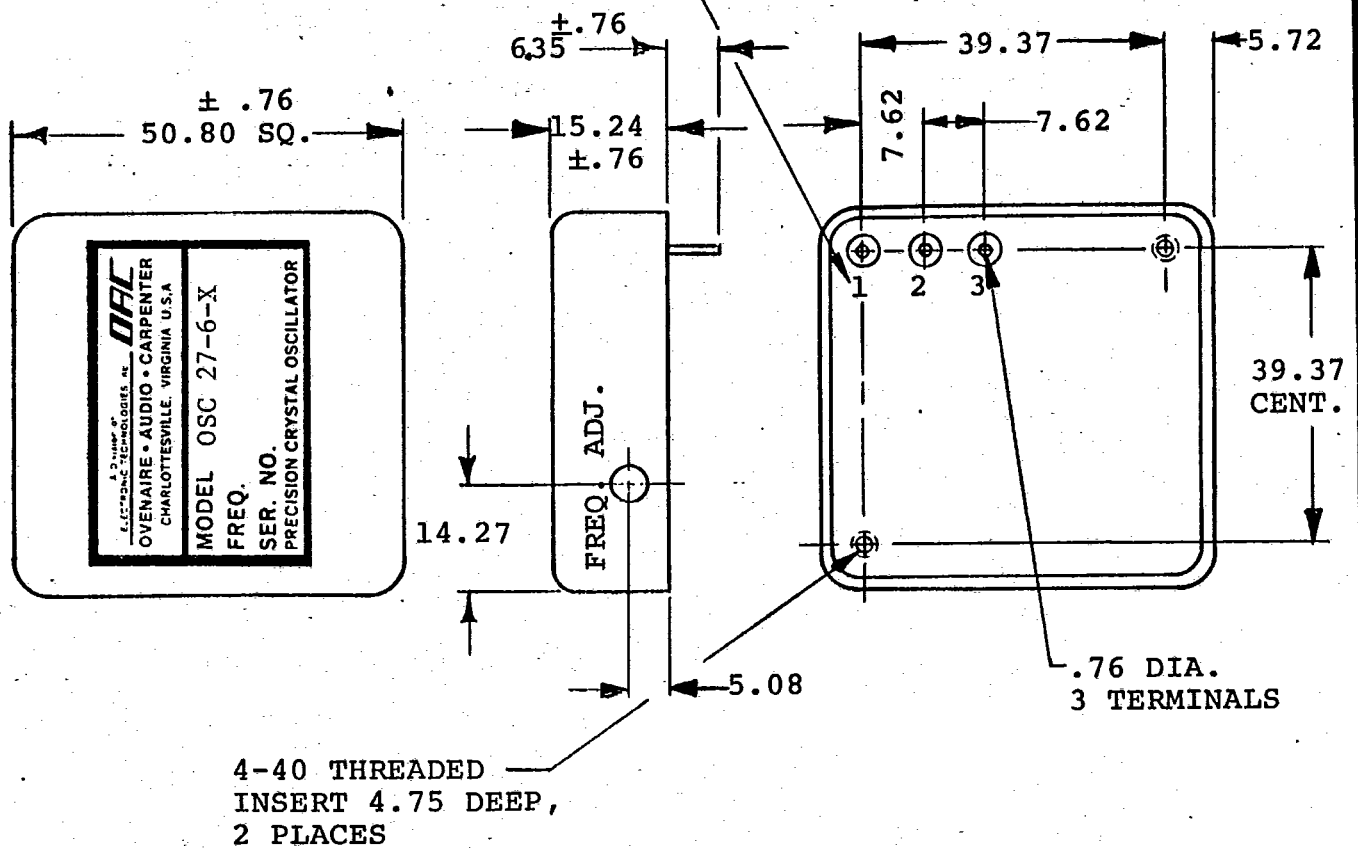


NUMBERS SHOWN FOR REF. ONLY  
(NOT STAMPED ON BASE)

DIMENSIONS IN MILLIMETERS



PIN CONNECTIONS

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

	<u>INCHES</u>	<u>MM</u>
	.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

SHT. 1 OF 2 OSC 27-6 SERIES			<b>ovenaire</b>		CHARLOTTESVILLE, VIRGINIA	
	NAME				SHT 1 OF 2	
	CATALOG TCXO				OSC 27-6 SERIES	
	TOLERANCES				SCALE	1:1
	UNLESS OTHERWISE SPECIFIED { MILLIMETERS ± 0.38 ANGLE INCH DEC ± .015				DWN	M.W. 10-18-77
				APP'D	DAG 10-18-77	
A	NEW DECAL ADDED.		DAG	7-1-85	MATERIAL: COVER-BASE: BRASS	
LET	REVISION		BY	DATE	FINISH: BRITE NICKEL	
					MARKING: DECAL OR EPOXY INK	

T-50-09

**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 27-6-1	OSC 27-6-2	OSC 27-6-3
2. Frequency Range (MHz)	2 to 12	2 to 12	2 to 6
3. Aging after 60 days (Max)	1 x 10 <sup>-6</sup> per year		5 x 10 <sup>-7</sup> /year
4. Temperature Stability (Ref. to +25°C)	±1 x 10 <sup>-6</sup> -20°C to +70°C AND ±1.5 x 10 <sup>-6</sup> -40°C to 85°C	±1 x 10 <sup>-6</sup> -30°C to +75°C	±0.5 x 10 <sup>-6</sup> -15°C to +70°C
5. Short Term (10 sec) RMS	2 x 10 <sup>-9</sup>	2 x 10 <sup>-9</sup>	1 x 10 <sup>-9</sup>
6. Voltage Stability	2 x 10 <sup>-7</sup> /2%	2 x 10 <sup>-7</sup> /2%	1 x 10 <sup>-7</sup> /2%

**D. FREQUENCY ADJUSTMENT**

1. Control: Piston type capacitor with screwdriver slot
2. Range: ± 3.5 x 10<sup>-6</sup> minimum (sufficient for 5 years)
3. Resolution: ± 2.5 x 10<sup>-8</sup> 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.

SHT. 2 OF 2 OSC 27-6 SERIES				<b>ovenaire</b>		CHARLOTTESVILLE, VIRGINIA		
				NAME		SHT 2 OF 2		
				CATALOG TCXO		OSC 27-6 SERIES		
				TOLERANCES		SCALE		
				UNLESS OTHERWISE SPECIFIED	MILLIMETERS ±	DWN	d.h.	10-17-
						ANGLES		
					INCH DEC ±	APP'D	<i>[Signature]</i>	10-17-77
		A	REV. TO SHT. 1.	DAG	7-1-85	MATERIAL:		MARKING:
		LET	REVISION	BY	DATE	FINISH:		