

DIMENSIONS IN MILLIMETERS

SHT. 1 OF 2	OSC 27-5 SERIES				ovenaire				CHARLOTTESVILLE, VIRGINIA			
					NAME				SHT 1 OF 2			
					CATALOG TCXO				OSC 27-5 SERIES			
					TOLERANCES				SCALE		1:1	
					UNLESS OTHERWISE SPECIFIED { MILLIMETERS ± 0.38 ANGLES INCH DEC ± .015				DWN		M.W. 10-17-77	
									APP'D		DAG 10-17-77	
					MATERIAL: COVER-BASE: BRASS				MARKING: DECAL OR EPOXY INK			
					FINISH: BRITE NICKEL							

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 27-5-1	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 x 10 ⁻⁶ per year		5 x 10 ⁻⁷ /yr.
* 4. Ambient Range 0°C to +55°C	±1 x 10 ⁻⁶	±5 x 10 ⁻⁷	±3 x 10 ⁻⁷
5. Short Term (10 sec.) RMS	2 x 10 ⁻⁹	2 x 10 ⁻⁹	1 x 10 ⁻⁹
6. Voltage Stability	2 x 10 ⁻⁷ /2%	1 x 10 ⁻⁷ /2%	1 x 10 ⁻⁷ /2%

* Referred to frequency at +25°C

D. FREQUENCY ADJUSTMENT

1. Control: Piston type capacitor with screwdriver slot
2. Range: ± 3.5 x 10⁻⁶ minimum (sufficient for 5 years)
3. Resolution: ± 2.5 x 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 Ovenaïre Representative for alternate mechanical packages.

SHT. 2 OF 2 OSC 27-5 SERIES					ovenaïre		CHARLOTTESVILLE, VIRGINIA		
					NAME		SHT 2 OF 2		
					CATALOG TCXO		OSC 27-5 SERIES		
					TOLERANCES		SCALE		
					UNLESS OTHERWISE SPECIFIED	{ MILLIMETERS ± ANGES INCH DEC ±	DWN	d.h.	10-17-
							APP'D	<i>MB</i>	10-17-77
		D	REV. TO SHT. 1.	TNT	2/85	MATERIAL:		MARKING:	
	C	REV. "D", RETYPED	D.H.	9/8/77					
	LET	REVISION	BY	DATE	FINISH:				