

REV	DATE	REVISION RECORD	DWN	AUTH
-	12-11-92	Released	JH	LR
A	02-19-93	Oscillator Lid	BH	LR
B	02-19-93	Tuning Hole and Electrical Tuning	JH	LR
C	03-22-93	Dimensions, Pins 1 & 7, and Tuning Hole Diameter	JH	LR
D	08-16-93	Tuning Slope	JH	LR

**OUTPUT**

Frequency  
10 MHz

**Level**

+13 ±2 dBm into 50 Ohms

**STABILITY**

**Aging**

<2 x 10<sup>-9</sup> per day after 72 hours  
<5 x 10<sup>-10</sup> per day after 90 days

**Phase Noise L(f)**

- 1 Hz -85 dBc
- 10 Hz -118 dBc
- 100 Hz -140 dBc
- 1K Hz -145 dBc
- 10K Hz -148 dBc

**Temperature Stability**

2 x 10<sup>-8</sup> total change from -55° to +60° C

**MECHANICAL**

**Dimensions**

2 x 2 x 3.25"

**Connectors**

9 pin header

**Packaging**

Solder sealed steel can with tuning access hole and #4-40 mounting studs on side

**POWER REQUIREMENTS**

**Warm-Up Power**

7 Watts for 5 minutes

**Total Power**

2.8 Watts at +25° C

**Supply Voltage**

+14 VDC ±5%

**ADJUSTMENT**

**Mechanical Tuning**

±1 x 10<sup>-6</sup>

**Electrical Tuning**

2 x 10<sup>-7</sup> ±10%, +2 to +8 VDC,

Positive Slope,

Centered at +5 VDC

**CRYSTAL**

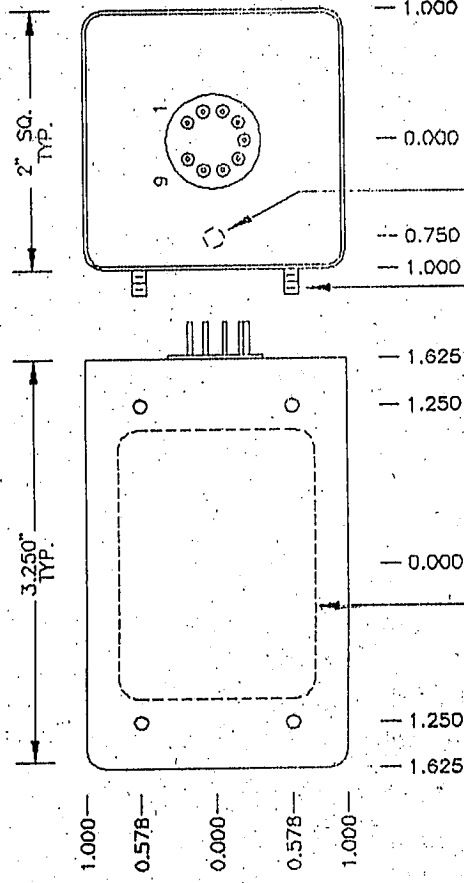
**Type**

SC-Cut Third Overtone

**OTHER**

**Applicable Documents**

Austron Spec #1121, P/N 30212168



Tuning access hole, opposite face  
Dia=0.150"

Label on opposite face.  
#4-40 x 1/4" stud, 4 places

**PIN FUNCTION:**

- 1 Ground, Case
- 2 NC
- 3 Supply Voltage
- 4 RF Output
- 5 RF Return
- 6 +10 VDC Reference Output
- 7 Ground, Case
- 8 Electrical Tuning
- 9 NC

Connector numbers are for reference only, they are not marked on unit.



**Wenzel Associates, Inc.**  
Austin, Texas

**Title: 10 MHz-SC Timekeeper Crystal Oscillator**

Rev:	Date:	Appr:
D	08-16-93	[Signature]
Part No:	500-03490	Drawn:
Spec:	±0.030"	FSM:
Dec:	±0.010"	62821
Dimensions are in inches		Page 1 of 1