EXTERNAL REFERENCE INPUT Frequency 10 MHz Level 0 dBm ±3dB into 50 ohms **OUTPUT** Frequency 10 MHz Level +10 dBm ±2 dB into 50 ohms **STABILITY** Aging 5 x 10⁻¹⁰ /day after 30 days operating 5 x 10⁻⁸/year, second year, typical Phase Noise L(f), unlocked 10 Hz -130 dBc 100 Hz -155 dBc -165 dBc 1 KHz **Temperature Stability** ±1x10⁻⁸, 0° to +50°C (Ref +25°C), unlocked Frequency Accuracy ±5x10⁻⁸ at time of shipment (+25°C) **Type 2 Loop Characteristics** Target BW: ≤1 Hz <5 minute to within ±1x10⁻⁹ of input **MECHANICAL Dimensions** 2.375" x 2.750" x 1.1" housing with bracket, mounting holes, Diam. 0.125" Connectors SMA Output, SMA Input, Feedthru capacitors **Packaging** Solder sealed steel can **POWER REQUIREMENTS Warm-Up Power** <6 Watts for 5 minutes **Total Power** <4 Watts at +25°C Supply Voltage

+15 VDC

ADJUSTMENT

Accuracy

CRYSTAL

STATUS BITS

Type

Mechanical, for Frequency

±5 x 10⁻⁷, typical

10 MHz SC-cut

Out-of-Lock Alarm

External Reference Loss

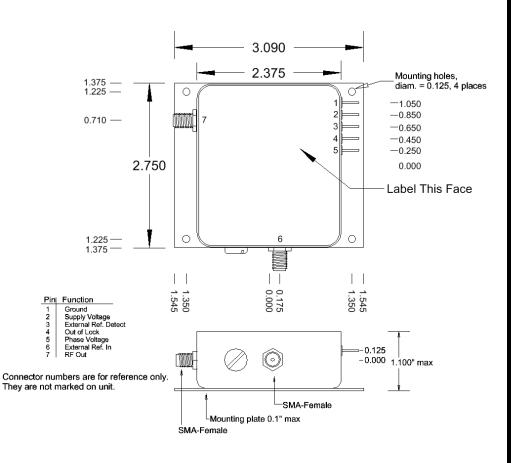
TTL, Low = loss of refer

Oscillator will "self " cent

when reference is lost.

TTL, Low = Locked

REV	DATE	REVISION RECORD	DWN	AUTH
-	07-08-02	Draft	KH	LR
Α	10-09-02	Type 1 Loop, Out of Lock, Mechanical	BH	LR
В	1-20-03	Remove "auto-select"	Liz	Liz
С	04-10-03	Dimensions, drwing, removed Phase Voltage	SS	LR
D	05-16-03	Power requirements	SS	PAC
E	08-04-03	Input phase noise, Temp Stability, Status Bits, Drawing	PAC	
F	01-08-04	Added Freq. Accuracy; Changed Alarm	PAC	
G	06-25-04	Temperature Stability	PAC	



Wenzel Associates, Inc. Austin, Texas									
10 MHz-SC Phase Locked Crystal Oscillator									
P/N: 501-09815	Rev:	Date 0	6-25-04	Drawn:	Ref:				
Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: ±0.030"		0.XXX Dec: ±0.010"	FSCM: 62821	Page 1 of 1				