INPUT Frequency 5 MHz, ±2 x 10⁻⁶ Level +7 dBm ±5 dB into 50 ohms OUTPUT Frequency 100 MHz Level +13 dBm ±2 dB into 50 ohms **STABILITY Output Phase Noise L(f)** (Free-Running) -128 dBc/Hz 100 Hz 1 kHz -155 dBc/Hz 10 kHz -170 dBc/Hz 100 kHz -171 dBc/Hz Aging ±1 x 10⁻⁶ per year after 30 days operating, typical **Temperature Stability** $\pm 5 \times 10^{-7}$ free-running from 0 to $\pm 50^{\circ}$ C, (Ref. +25°C) Phase Lock Alarm TTL Locked: +3.5 VDC to +5.2 VDC (Hi) Out-of-Lock: +0.8 VDC max (Lo) **Phase Lock Voltage Monitor** Voltage monitor pin supplied **SPECTRAL PURITY Harmonics** ≤-30 dBc **Sub-Harmonics** ≤-50 dBc **PLL Divider Products** ≤-60 dBc **Spurious** ≤-70 dBc **MECHANICAL Dimensions** 2.5 x 3.5 x 0.8" Connectors SMA's and solder pins on side Feed-thru terminals for lock alarm, supply and phase lock voltage monitor

Tapped holes on sides, 16 places

≤8 Watts at start-up for 5 minutes

≤5 Watts at steady state +25°C

Target Bandwidth: < 60 Hz

Through holes, 4 places

POWER REQUIREMENTS

Supply Voltage

Warm-Up Power

at +25° C **Total Power**

ADJUSTMENT

Type 2 Loop

Loop BW

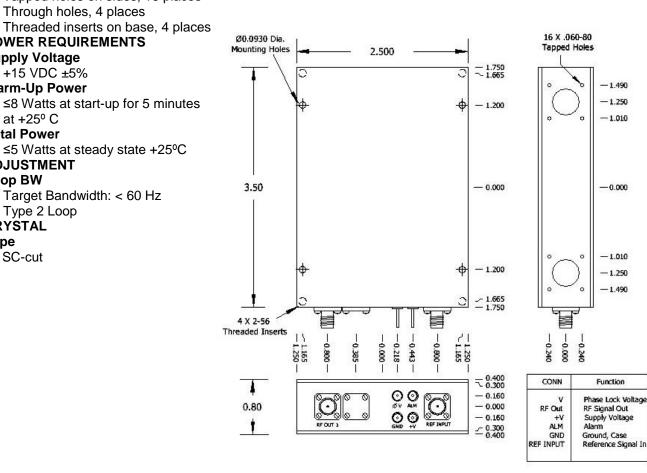
CRYSTAL

SC-cut

Type

+15 VDC ±5%

	REV	DATE	REVISION RECORD	DWN	AUTH
	-	07-28-11	Initial Release	PAC	JR
Packaging					
Nickel-plated machined					
aluminum housing					
Mounting					
Woulding					



-1.490

-1.250

-1.010

-0.000

-1.010

-1.250

-1.490

Function

Wenzel Associates, Inc. Austin, Texas										
Standard 100 MHz-SC Phase Lock Crystal Oscillator										
P/N: 501-24801	Rev:	Date 0	7-28-11	Drawn:		Ref: SPR				
Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: ±0.03	0"	0.XXX Dec: ±0.010"	FSCM: 62821	F	Page 1 of 1				