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) 100 Hz -128 dBc/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

Packaging

Mounting

Supply Voltage

Warm-Up Power

at +25º C

ADJUSTMENT

Type 2 Loop

Total Power

Loop BW

CRYSTAL

SC-cut

Type

+12 VDC ±5%

Nickel-plate machined

Through holes, 4 places

POWER REQUIREMENTS

Tapped holes on sides, 16 places

Threaded inserts on base, 4 places

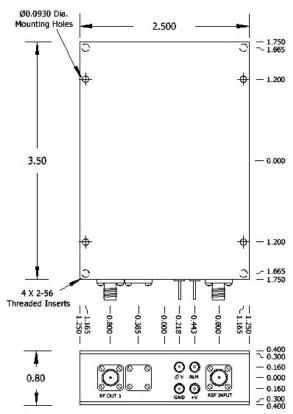
≤8 Watts at start-up for 5 minutes

≤5 Watts at steady state +25°C

Target Bandwidth: 60 Hz

aluminum housing

REV	DATE	REVISION RECORD	DWN	AUTH
-	05-04-18	Draft	Liz	VG



V RF Out +V ALM GND REF INPUT		Phase Lock Voltage RF Signal Out Supply Voltage Alarm Ground, Case Reference Signal In			
	CONN	Fu	inction		
	0.240	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- 1.010 - 1.250 - 1.490		
		-	-0.000		
			- 1.490 - 1.250 - 1.010		

16 X .060-80

Wenzel Associates, Inc. Austin, Texas Title: Standard 100 MHz-SC Phase Lock Crystal Oscillator											
Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: ±0.03	0"	0.XXX Dec: ±0.010"	FSCM: 62821	Р	age 1 of 1					