OUTPUT A (J2) Frequency 100 MHz Level +13 dBm ±2 dB into 50 ohms Phase Noise L(f), Static 100 Hz -130 dBc/Hz 1 kHz -158 dBc/Hz 10 kHz -175 dBc/Hz 100 kHz -176 dBc/Hz OUTPUT B (J1) Frequency 500 MHz Level +13 dBm ±2 dB into 50 ohms Phase Noise L(f), Static 100 Hz -114 dBc/Hz -142 dBc/Hz 1 kHz 10 kHz -158 dBc/Hz 100 kHz -159 dBc/Hz STABILITY Aging 1×10^{-6} first vear after 30 days operating, typical 5×10^{-7} second year, typical 3×10^{-7} per year thereafter, typical **Temperature Stability** ±5 x 10⁻⁷, 0° to +50°C (Ref +25°C) Harmonics ≤ -25 dBc Sub-Harmonics ≤ -60 dBc Spurious ≤ -80 dBc, excluding power supply line related spurs MECHANICAL Dimensions 2.25 x 4 x 1" Connectors SMA(f) and solder pins Packaging Nickel-plated machined aluminum housing - J1-01 Mounting Threaded inserts on base, #2-56, 6 places

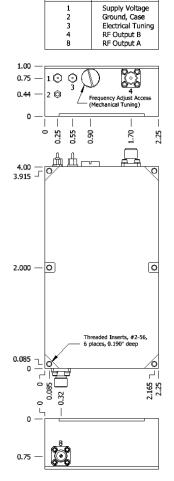
Type

OTHER

Label

POWER REQUIREMENTS Warm-Up Power \leq 9 Watts for 5 minutes **Total Power** \leq 6 Watts at +25°C Supply Voltage +15 VDC ±5% ADJUSTMENT Mechanical Tuning $+4 \times 10^{-6}$ **Electrical Tuning** $\pm 5 \times 10^{-7}$, $\pm 5 \text{ VDC}$ Negative slope CRYSTAL 100 MHz SC-cut (x5) Use conventional label with the following information: 501-25469 (Current Rev.) 100/500 MHz MXO-FR +15 VDC Serial # - Date Code (Mark connectors with function) **Test Data** Output Level Phase Noise - Static Temperature Stability Harmonics, Subs, Spurious Power - Warm-up and Total Tuning – MT and ET

REV	DATE	REVISION RECORD			DWN	AUTH
-	11-10-11	Initial Release	PAC			
		-				
		Connector	O Connections Function			



Wenzel Associates, Inc.										
100/500 MHz Multiplied Crystal Oscillator (MXO-FR)										
^{P/N:} 501-25469	Rev:	Date: 11-10-11		Drawn:	Ref: 23456					
Tolerances: 0.XX De (except as noted) Dimensions are in inches ±0.0		0"	0.XXX Dec: ±0.010"	FSCM: 62821	Page 1 of 1					