INPUT Frequency 10 MHz, +3 to +13 dBm into 50 ohms OUTPUT - 10 MHz Frequency 10 MHz, +12 dBm ±2 dB Phase Noise 10 Hz -130 dBc/Hz 100 Hz -150 dBc/Hz 1 kHz -160 dBc/Hz 10 kHz -165 dBc/Hz Harmonics, Subs, Spurious -25. -85. -85 dBc **OUTPUT - 100 MHz** Frequency 100 MHz. +12dBm ±2 dB **Output Phase Noise L(f)** Locked to Internal 10 MHz 10 Hz -100 dBc/Hz 100 Hz -118 dBc/Hz 1 kHz -150 dBc/Hz 10 kHz -165 dBc/Hz Harmonics, Subs, Spurious -25, -85, -85 dBc to 600 MHz Loop BW Target Bandwidth: 40 Hz, typical, type 2 Loop **STABILITY** Aging ±5 x 10⁻¹⁰ per day, typical **Temperature Stability** ±1 x 10⁻⁸, 0 to +50°C, (Ref. +25°C) Phase Lock Alarm - TTL Locked: +3.5 to +5.2 VDC (Hi) Unlocked: +0.8 VDC max (Lo) **Phase Lock Voltage Monitor** Voltage monitor pin supplied, 0 to +8.5 VDC range **MECHANICAL Dimensions** 2.5 x 6.0 x 0.9" Connectors SMA's 7 Pin D-subminiature, male

Packaging

Nickel plated machined brass housing

POWER REQUIREMENTS

Supply Voltage

+12 ±0.5VDC

Warm-Up Power

12.6 Watts maximum at start-up for 5 minutes at +25° C

Total Power

6 Watts, typical, steady state +25°C

ADJUSTMENT Electrical Tuning

±1 ppm, 0 to +10 VDC Centered at +5 VDC Negative Slope

Suitable for use with a 100 k ohm pot

NOTE

When the external 10 MHz reference is applied the internal 10 MHz is disabled and the external 10 MHz signal is phase locked to the 100 MHz internal OCXO. The external 10 MHz is also routed through the 10 MHz output port.

SPECIAL

Reference Select Switch – Internal 10 MHz By Pass

>+4.0 Volts enables external reference, bypassing internal 10 MHz <+1.0 Volts disables external

REV	DATE	REVISION RECORD	DWN	AUTH
-	01-17-08	Draft	VG	DC
Α	03-05-13	PL Voltage Monitor, ET typo	BH	CR

Wenzel Associates, Inc. Austin, Texas										
10 and 100 MHz Phase Locked Oscillator										
501-18670	Rev:	Date: 03-05-13	Drawn:	Ref:						
Tolerances: 0.XX (except as noted) Dimensions are in inches ±(030"	0.XXX Dec: ±0.010"	FSCM: 62821	Page 1 of 2					

