

REV	DATE	REVISION RECORD	DWN	AUTH
-	07-23-03	Draft	SS	LR

OUTPUT

Frequency

10 MHz

Level

+2 dBm ±2 dB into 50 ohms

INPUT

Frequency

5 or 10 MHz auto select

Level

+4 ±3 dBm into 50 ohms output impedance

Threshold +.5 to 1.0 dBm

STABILITY

Aging

5 x 10⁻¹⁰ /days after 30 days operating

5 x 10⁻⁸ /year, second year, typical

Phase Noise L(f)

10 Hz -130 dBc/Hz

100 Hz -155 dBc/Hz

1 kHz -165 dBc/Hz

Temperature Stability

±1x10⁻⁸, -40° to +60°C (Ref +25°C)

Type 1 Loop Characteristics

<5 minutes to within ±5x10⁻⁸

Lock Range ±.5x10⁻⁶

MECHANICAL

Dimensions

2.94 x 1.75 x 1"

Connectors

Input Connector: BNC female

Output Connectors: SMA and feedthru capacitor

Packaging

Steel can with gasketed access screw and threaded inserts on base

POWER REQUIREMENTS

Warm-Up Power

6 Watts for 5 minutes

Total Power

3 Watts at +25°C

Supply Voltage

+15 VDC

ADJUSTMENT

Mechanical Tuning

±3 x 10⁻⁶ min., 20 Turn Control

CRYSTAL

Type

10 MHz SC-cut

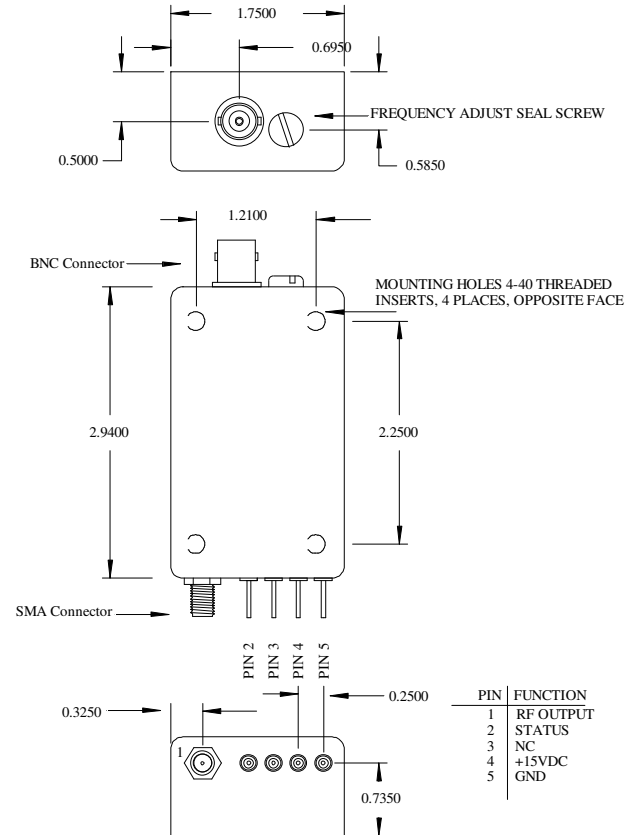
STATUS BITS

External Reference Loss

TTL, Low = loss of reference

Out-of-Lock Alarm

TTL, Low = locked



Wenzel Associates, Inc.

Austin, Texas

Title: **10 MHz-SC Digital Phase Locked Loop Crystal Osc.**

P/N: 501-10967	Rev: -	Date: 07-23-03	Drawn:	Ref:
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Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: ±0.030"	0.XXX Dec: ±0.010"	FSCM: 62821	Page 1 of 1
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