

REV	DATE	REVISION RECORD	DWN	AUTH
-	07-09-04	Draft	SS	LR
A	08-19-04	Add 10 KHz noise, move ET	LR	LR
B	5-30-06	Temperature Stability	SS	BH

OUTPUT

Frequency
10 MHz

Level
+4 dBm ±3 dB into 50 ohms

EXTERNAL REFERENCE INPUT

Frequency
5 or 10 MHz

Level
+4 dBm ±3dB into 50 ohms

Automatic Input Select Level

-2.0 to +0.5 dBm

Phase Noise L(f)

1 Hz -85 dBc
 10 Hz -117 dBc
 100 Hz -132 dBc
 1 KHz -142 dBc
 10 KHz -147 dBc

STABILITY

Aging

5×10^{-9} /day after 24 hours operating

5×10^{-8} /year, second year, typical

Phase Noise L(f)

10 Hz -120 dBc
 100 Hz -145 dBc
 1 KHz -160 dBc
 10 KHz -165 dBc

Temperature Stability

$\pm 5 \times 10^{-8}$, 0° to +60°C (Ref +25°C)

Subharmonics (5 MHz)

-30 dBc, maximum

Type 1 Loop Characteristics

BW < 1 Hz

<5 minute to within $\pm 1 \times 10^{-9}$ of input

Electrical Tuning

$\pm 1 \times 10^{-6}$, ±5 VDC

MECHANICAL

Dimensions

1.75" x 2.938" x 0.6" housing
 2.25" x 3.40" footprint with brackets

Connectors

SMA Output, SMA Input,
 Feedthru capacitors

Packaging

Sealed steel can

POWER REQUIREMENTS

Warm-Up Power

6 Watts for 5 minutes

Total Power

3.5 Watts at +25°C, typical

Supply Voltage

+12 or +15 VDC

CRYSTAL

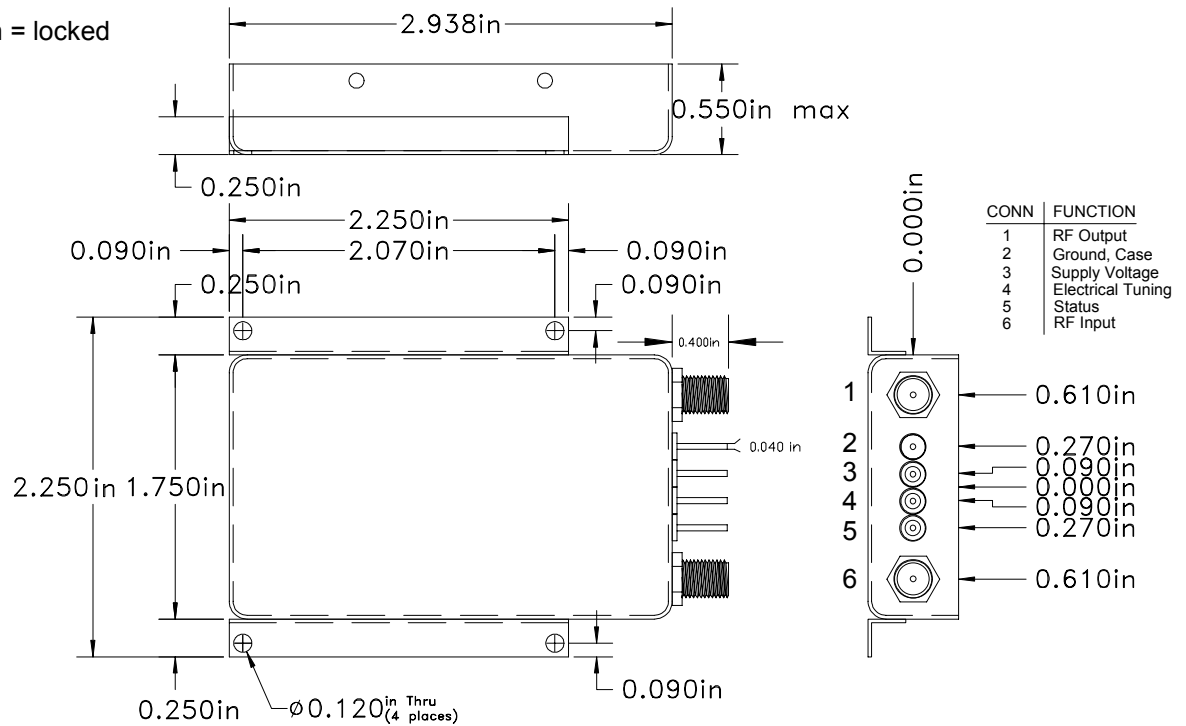
Type

10 MHz SC-cut

STATUS PIN

External Reference Loss & Out-of-Lock Alarm

TTL, Low = loss of reference, not locked
 TTL, High = locked



CONN	FUNCTION
1	RF Output
2	Ground, Case
3	Supply Voltage
4	Electrical Tuning
5	Status
6	RF Input



Wenzel Associates, Inc.
 Austin, Texas

Title: 10 MHz-SC PLO with Auto Input Select				
P/N: 501-12970	Rev: B	Date: 05-30-06	Drawn:	Ref:
Tolerances: (except as noted) Dimensions are in inches		0.XX Dec: ±0.030"	0.XXX Dec: ±0.010"	FSCM: 62821
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