

INPUT

Frequency, Level

5 or 10 MHz
-10 to +10 dB into 50 ohms

VSWR

1.25:1

OUTPUT

Frequency, Level

10 MHz
+4 dBm \pm 3 dB into 50 ohms

STABILITY

Aging

1×10^{-9} /day after 24 hours operating,
preceded by 3 days operation
Disciplined, with 24 hour input
 5×10^{-8} /year typical
after 2 years of operation

Phase Noise L(f), Static

1 Hz -108 dBc/Hz
10 Hz -135 dBc/Hz
100 Hz -155 dBc/Hz
1 KHz -163 dBc/Hz

G-Sensitivity

$\leq 3 \times 10^{-10}$, per axis,
Tested at .01 g²/Hz, 10 to 100 Hz
Measured data at 12 Hz in 3 axes

Temperature Stability, (Ref +25°C)

$\pm 2 \times 10^{-8}$, -40° to +75°C
 $\pm 5 \times 10^{-9}$, -10° to +65°C

Sub-Harmonics (5 MHz)

-45 dBc minimum

Input/Output PLL Rejection

1 Hz 15 dB Min.
10 Hz 35 dB Min
100 Hz 55 dB Min

MECHANICAL

Dimensions

2.26" x 2.26" x 0.61" maximum

Connectors

SMA Output, Feedthru capacitors

Packaging

Machined Aluminum Housing

POWER REQUIREMENTS

Warm-Up Power

<7.5 Watts for 5 minutes

Total Power

3.5 Watts at +25°C, 6.8 Watts max, cold

Supply Voltage

+10.5 to +12.5 VDC

CRYSTAL

Type

10 MHz SC-cut, select 2e-10/g crystals
($\geq 90^\circ\text{C}$)

ENVIRONMENT

Relative Humidity

Up to 95% at +30°C
Conformally coat PCBs

Atmospheric Pressure

Operating to 13,500 feet
Non-Op to 50,000 feet

Vibration

Airborne, isolated see calculated performance

Vibration Frequency (Hz)	10	11.5	11.85	11.92	12	14.08	16.41	29.84	103.7	470.2	2000
Isolated Vibration Profile	2.1E-03	7.9E-03	1.0E-02	9.9E-03	9.4E-03	3.1E-04	3.6E-05	9.8E-08	5.7E-13	3.0E-17	3.1E-22
L(f) 3e-10/g	-100.3	-95.7	-94.9	-95.0	-95.3	-111.5	-122.3	-153.0	-155.0	-160.0	-163.0

OTHER

Connector (J3-2)

Calibration enable: TTL Low (0V)
Calibration not enabled: TTL High (5V)

Slow-Transition

Smooth frequency transition on the loss of
lock and reacquisition of input reference

REV	DATE	REVISION RECORD	DWN	AUTH
-	03-07-16	Initial Release	BH	BB
A	03-01-17	Added Slow Transition Statement	PAC	LR

Wenzel Associates, Inc.

Austin, Texas

Title:

10 MHz-SC Slow Transition, Low G PLO

P/N:

501-29839

Rev:

A

Date:

03-01-17

Drawn:

Ref:

26975

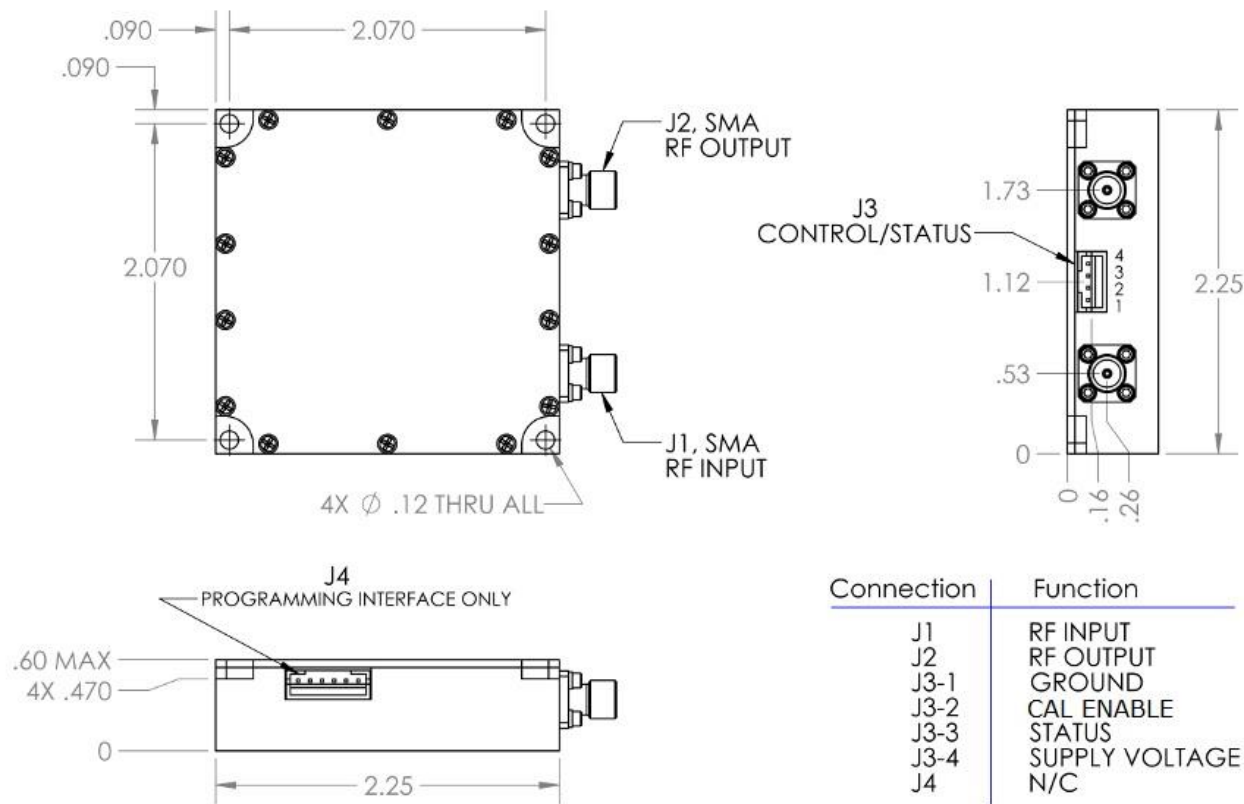
Tolerances:
(except as noted)
Dimensions are in inches

0.XX Dec:
 ± 0.030 "

0.XXX Dec:
 ± 0.010 "

FSCM:
62821

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