

OUTPUT**Frequency**

100 MHz

Level

+13 dBm ±2 dB into 50 ohms

G*: +13 dBm ±3 dB into 50 ohms

STABILITY**Aging (typical)**1 x 10⁻⁶ per year after 30 days operating5 x 10⁻⁷ second year3 x 10⁻⁷ per year, thereafter**Phase Noise L(f), Static**

	Standard	Premium
100 Hz	-130 dBc/Hz	-135 dBc/Hz
1 kHz	-158 dBc/Hz	-160 dBc/Hz
10 kHz	-175 dBc/Hz	-178 dBc/Hz
100 kHz	-176 dBc/Hz	-180 dBc/Hz

Temperature StabilityE: ±2 x 10⁻⁷, 0° to +50°C (Ref +25°C)F: ±5 x 10⁻⁷, -20 to +70°C (Ref +25°C)G*: ±2 x 10⁻⁶, -55° to +85°C (Ref +25°C)**Harmonics**

≤ -30 dBc

Spurious

≤ -80 dBc, excluding power supply line related spurs

MECHANICAL**Dimensions**

1.835 x 1.865 x 0.75"

Connectors

SMA(f) and solder pins on side

Packaging

Nickel-plated machined aluminum case

POWER REQUIREMENTS**Warm-Up Power**

≤ 5 Watts for less than 3 minutes at +25°C

G*: ≤ 6 Watts for 5 minutes at +25°C

Total Power

≤ 2.5 Watts at +25°C

G*: ≤ 3 Watts at +25°C

Supply Voltage

+15 VDC ±5% or +12 VDC ±5%

ADJUSTMENT

(consult factory for non standard tuning options)

Mechanical Tuning±4 x 10⁻⁶**Electrical Tuning**±2 x 10⁻⁷, ±5 VDC, Negative slope**CRYSTAL****Type**

100 MHz SC-cut

ENVIRONMENTAL**Acceleration Sensitivity**

Select desired sensitivity

5: 5e-10 per g, per axis typical

3: 3e-10 per g, per axis guaranteed

2: 2e-10 per g, per axis guaranteed

REV	DATE	REVISION RECORD	DWN	AUTH
-	12-9-13	Draft	CB	

Ordering Options

-xx	G-Sensitivity	Voltage	Phase Noise L(f)	Package	Temp (Ref +25 °C)
01	5	+15V	Standard	A	E
02	5	+15V	Standard	A	F
03	5	+15V	Standard	A	G
11	5	+15V	Premium	A	E
12	5	+15V	Premium	A	F
13	5	+15V	Premium	A	G
21	5	+12V	Standard	A	E
22	5	+12V	Standard	A	F
23	5	+12V	Standard	A	G
31	5	+12V	Premium	A	E
32	5	+12V	Premium	A	F
33	5	+12V	Premium	A	G
41	3	+15V	Standard	A	E
42	3	+15V	Standard	A	F
43	3	+15V	Standard	A	G
51	3	+15V	Premium	A	E
52	3	+15V	Premium	A	F
53	3	+15V	Premium	A	G
61	3	+12V	Standard	A	E
62	3	+12V	Standard	A	F
63	3	+12V	Standard	A	G
71	3	+12V	Premium	A	E
72	3	+12V	Premium	A	F
73	3	+12V	Premium	A	G
81	2	+15V	Standard	A	E
82	2	+15V	Standard	A	F
83	2	+15V	Standard	A	G
91	2	+12V	Standard	A	E
92	2	+12V	Standard	A	F
93	2	+12V	Standard	A	G

**Wenzel Associates, Inc.**

Austin, Texas

Title:

100 MHz-SC Ultra Low Noise II Crystal Oscillator

P/N:

501-27555-xx

Rev:

-

Date:

12-9-13

Drawn:

Ref:

Tolerances:
(except as noted)
Dimensions are in inches

0.XX Dec:

±0.030"

0.XXX Dec:

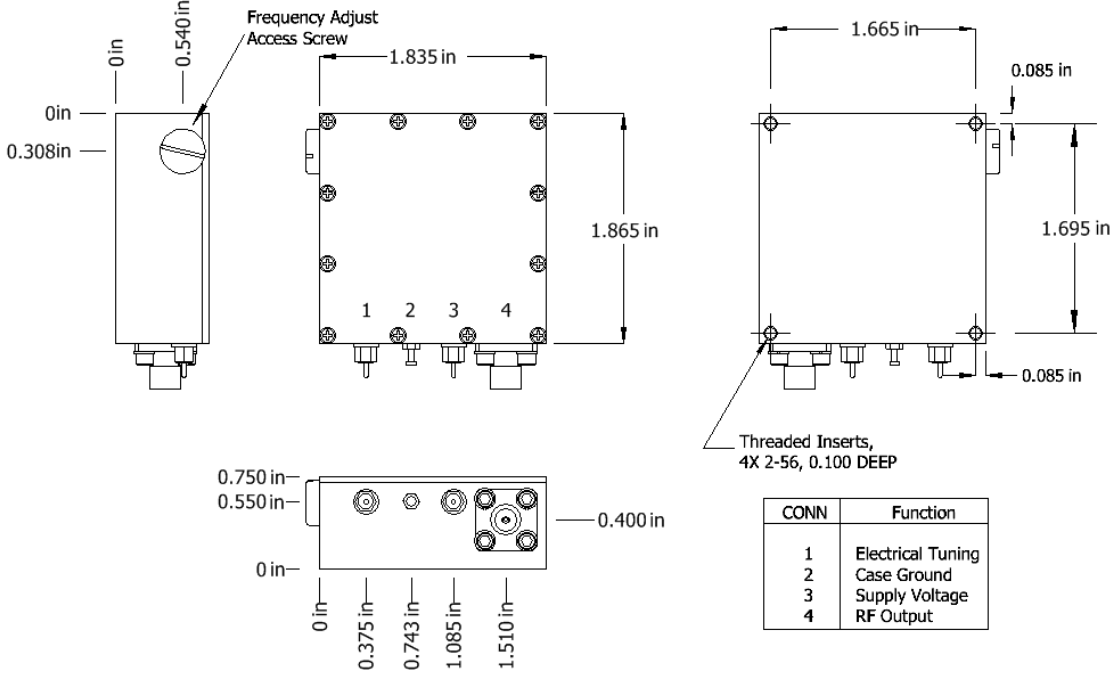
±0.010"

FSCM:

62821

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Package A



CONN	Function
1	Electrical Tuning
2	Case Ground
3	Supply Voltage
4	RF Output

Wenzel Associates, Inc.				
Austin, Texas				
Title:				
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501-27555-xx	-	12-9-13		
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