

OUTPUT**Frequency**

10 MHz

Level

+13 dBm ± 2 dB into 50 ohms

STABILITY**Aging (typical)**5 x 10⁻¹⁰ per day after 30 days operating5 x 10⁻⁸ second year3 x 10⁻⁸ per year, thereafter**Phase Noise L(f)**

	Standard	Premium
10 Hz	-130 dBc/Hz	-140 dBc/Hz
100 Hz	-155 dBc/Hz	-160 dBc/Hz
1 kHz	-165 dBc/Hz	-165 dBc/Hz
10 kHz	-165 dBc/Hz	-165 dBc/Hz

Temperature Stability**E:** ±2 x 10⁻⁹, 0° to +50°C (Ref +25°C)**F:** ±5 x 10⁻⁹, -20° to +70°C (Ref +25°C)**G*:** ±1.5 x 10⁻⁸, -55° to +85°C (Ref +25°C)**Harmonics**

≤ -30 dBc

Spurious

≤ -80 dBc, excluding power supply line related spurs

MECHANICAL**Packaging**

Solder sealed steel can

Dimensions

2 x 2 x 4"

Connectors

SMA(f) and 7 pin header

POWER REQUIREMENTS**Warm-Up Power**

≤ 5 Watts for 5 minutes at +25°C

G*: ≤ 6 Watts for 5 minutes at +25°C

Total Power

≤ 2.2 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±1 x 10⁻⁶**Electrical Tuning**±2 x 10⁻⁷, ±5 VDC, Negative slope**CRYSTAL****Type**

10 MHz SC-cut

REV	DATE	REVISION RECORD	DWN	AUTH
-	12-2-13	Initial Release	CB	

Ordering Options

-xx	Voltage	Phase Noise L(f)	Package	Temp (Ref +25 °C)
01	+15V	Standard	A	E
02	+15V	Standard	A	F
03	+15V	Standard	A	G
11	+15V	Premium	A	E
12	+15V	Premium	A	F
13	+15V	Premium	A	G
21	+12V	Standard	A	E
22	+12V	Standard	A	F
23	+12V	Standard	A	G
31	+12V	Premium	A	E
32	+12V	Premium	A	F
33	+12V	Premium	A	G

**Wenzel Associates, Inc.**

Austin, Texas

Title:

10 MHz-SC Timekeeper Crystal Oscillator

P/N:

501-27517-xx

Rev:

-

Date:

12-2-13

Drawn:

Ref:

Tolerances:
(except as noted)
Dimensions are in inches

0.XX Dec:

±0.030"

0.XXX Dec:

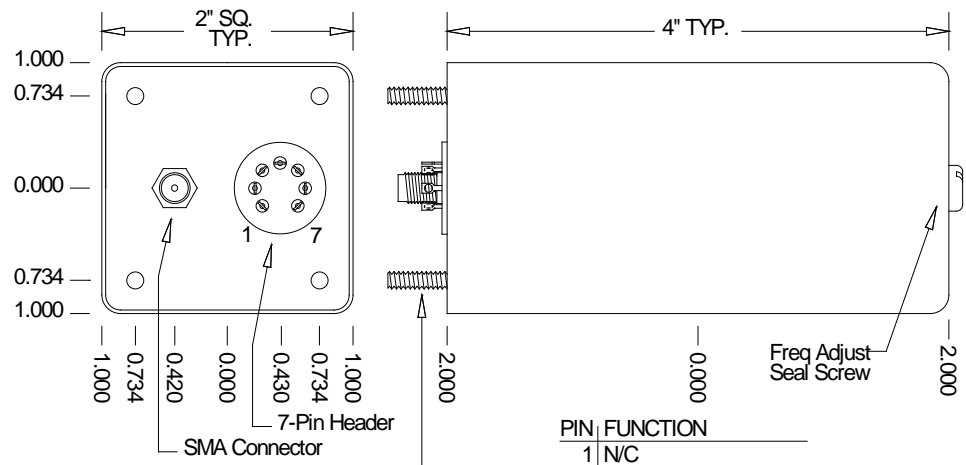
±0.010"

FSCM:

62821

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Package A



#6-32 x 1/2" mounting stud,
4 places
Connector numbers are for reference only,
they are not marked on unit.

PIN	FUNCTION
1	N/C
2	Ground, Case
3	Ground, Case
4	Supply Voltage
5	NC
6	Electrical Tuning
7	Ground, Case

Wenzel Associates, Inc.
Austin, Texas

Title: 10 MHz-SC Timekeeper Crystal Oscillator				
P/N: 501-27517-xx	Rev: -	Date: 12-2-13	Drawn:	Ref:
Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: ±0.030"	0.XXX Dec: ±0.010"	FSCM: 62821	Page 2 of 2