

OUTPUT

Frequency

100 MHz

Level

+13 dBm \pm 2 dB into 50 ohms

G*: +13 dBm \pm 3 dB into 50 ohms

STABILITY

Aging (typical)

1×10^{-6} per year after 30 days operating

5×10^{-7} second year

3×10^{-7} per year, thereafter

Phase Noise L(f)

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 Stability

E: $\pm 2 \times 10^{-7}$, 0 to +50°C (Ref +25°C)

F: $\pm 5 \times 10^{-7}$, -20 to +70°C (Ref +25°C)

G*: $\pm 2 \times 10^{-6}$, -55 to +85°C (Ref +25°C)

Harmonics

\leq -30 dBc

Spurious

\leq -80 dBc, excluding power

supply line related spurs

MECHANICAL

Packaging

Solder sealed steel can

Dimensions

1.5 x 1.5 x 0.5"

Connectors / Mounting

Solder pins on base; Thru-hole PCB mount

POWER REQUIREMENTS

Warm-Up Power

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

G*: \leq 6 Watts for 5 minutes at +25°C

Total Power

\leq 2.2 Watts at +25°C

G*: \leq 3 Watts at +25°C

Supply Voltage

+15 VDC \pm 5% or +12 VDC \pm 5%

ADJUSTMENT

(consult factory for non standard tuning options)

Electrical Tuning

$\pm 4 \times 10^{-6}$, 0 to +10 VDC, negative slope

CRYSTAL

Type

100 MHz SC-cut

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
-	11-25-13	Initial Release	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 L.O. ULN Series Crystal Oscillator

P/N:

501-27585-xx

Rev:

-

Date:

11-25-13

Drawn:

Ref:

Tolerances:
(except as noted)
Dimensions are in inches

0.XX Dec:

± 0.030 "

0.XXX Dec:

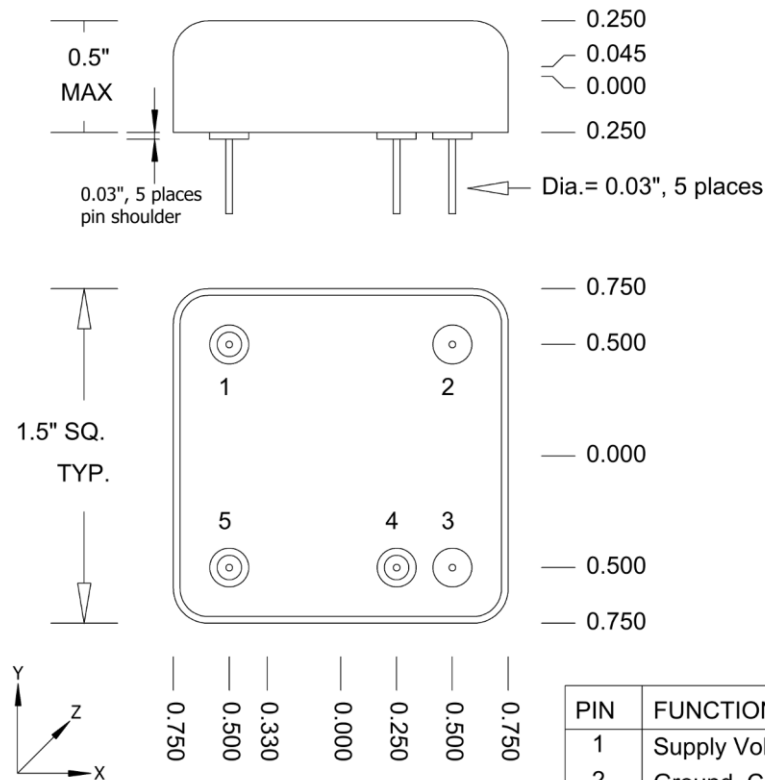
± 0.010 "

FSCM:

62821

Page 1 of 2

Package A



PIN	FUNCTION
1	Supply Voltage
2	Ground, Case
3	Ground, Case
4	RF Output
5	Electrical Tuning

Wenzel Associates, Inc.

Austin, Texas

Title:

100 MHz-SC L.O. ULN Series Crystal Oscillator

P/N:

501-27585-xx

Rev:

-

Date:

11-25-13

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