OUTPUT Frequency 50 MHz Level **STABILITY Aging**

+10 ±2 dBm into 50 ohms

 $\pm 1 \times 10^{-6}$ per year

after 30 days operating, typical

Phase Noise L(f), typical, Static 100 MHz -01 -02 -03 -04

100 WIII	<u> </u>	<u> </u>		0 1
10 Hz	-90	-95	-99	-104 dBc/Hz
100 Hz	-120	-125	-130	-135 dBc/Hz
1 kHz	-145	-150	-155	-156 dBc/Hz
10 kHz	-165	-168	-170	-170 dBc/Hz
100 kHz	-165	-168	-170	-170 dBc/Hz
*typical a	at 10 H	Ηz		

Temperature Stability

≤ ±2 x 10⁻⁷, 0° to +50 °C (Ref +25 °C) $\leq \pm 5 \times 10^{-7}$, -20° to +70°C (Ref +25°C) \leq ±1.1 x 10⁻⁶, -40° to +85°C (Ref +25°C)

Harmonics

≤ -30 dBc

Spurious

≤ -80 dBc

MECHANICAL

Dimensions

<1.03" x 1.03" x 0.515"

Connectors

Solder pins on base, glass stand-offs

Packaging

Solder sealed steel can

POWER REQUIREMENTS

Warm-Up Power

< 3.3 W for 2.5 min

Total Power

1.3 W at +25 °C steady state, typical

Supply Voltage

+12 VDC, ±1 VDC

ADJUSTMENT

Electrical Tuning

 $\pm 7 \times 10^{-6}$ nominal, 0 - 10 VDC, Positive slope

CRYSTAL

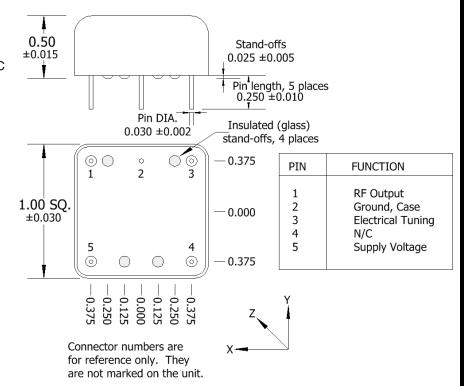
Type

100 MHz SC-cut w/ divide by 2

TEST DATA

Output Level at +25℃ Static Phase Noise Temperature Stability Power – Warm-up / Total at +25 ℃

REV	DATE	REVISION RECORD	DWN	AUTH
-	10-08-13	Draft	BH	Liz
В	10-16-13	Updated noise, temp,watts	Liz	Liz





50 MHz-SC HS-ONYX IV Crystal Oscillator

501-27228-xx	Rev:	Date	: 0-16-13	Drawn:		Ref: 501-24760-xx
Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: ±0.03	0"	0.XXX Dec: ±0.010"	FSCM: 62821	F	Page 1 of 1