OUTPUT

Frequency

40 MHz

Level

+10 +2 dBm into 50 ohms

STABILITY

Aging

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

after 30 days operating, typical

Phase Noise L(f), typical, Static

100 MHz	-01	-02	-03	<u>-04</u>	
10 Hz	-76	-88	-92	-97	dBc/Hz
100 Hz	-106	-118	-123	-128	dBc/Hz
1 kHz	-151	-161	-163	-165	dBc/Hz
10 kHz	-151	-161	-163	-165	dBc/Hz
100 kHz	-151	-161	-164	-165	dBc/Hz
*typical at	10 Hz	<u>-</u>			

Temperature Stability

 $\leq \pm 2 \times 10^{-7}$, 0° to +50°C (Ref +25°C) $\leq \pm 5 \times 10^{-7}$, -20° to +70°C (Ref +25°C) $\leq \pm 1.5 \times 10^{-6}$, -40° to +85°C (Ref +25°C)

Harmonics

≤ -30 dBc

Spurious, tested, guaranteed

≤ -80 dBc, ≤ -100dBc

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

≤ 3W for 2.5 min

Total Power

≤ 1.2W at +25°C steady state, typical

Supply Voltage

+12 VDC ±1 VDC

ADJUSTMENT

Electrical Tuning

±7 x 10⁻⁶ nominal, 0 - 10 VDC, Positive slope

CRYSTAL

Type

80 MHz / 2 SC-cut, 5e-10/g typical

TEST DATA

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

REV	DATE	REVISION RECORD	DWN	AUTH
-	02-07-14	Draft	Liz	
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