

## Low g-sensitivity, Tight Stability

## 50MHz to 100MHz

- Rugged construction for severe environments
- Tight temperature stability, from  $\pm 0.5\text{ppm}$  over  $-40^\circ$  to  $+85^\circ\text{C}$
- Sine Wave, 3dBm  $\pm 2\text{dBm}$  into 50 $\Omega$  load



### SPECIFICATIONS

Frequency Range:	50.0MHz to 100.0MHz
Output:	Sine Wave, 3dBm $\pm 2\text{dBm}$ into 50 $\Omega$ load
Harmonic & Subs:	-40dBc max.
Frequency Stability:	See table
Voltage Stability:	$\pm 0.1\text{ppm}$ for a $\pm 5\%$ change
Load Stability:	$\pm 0.1\text{ppm}$ for a $\pm 5\%$ change
Ageing:	< 1ppm/year
Total Stability:	$\pm 5\text{ppm}$ max from nominal over 10 years (Includes temp., voltage, load & ageing)
Phase Noise:	See table
G-Sensitivity:	$\leq 7 \times 10^{-10}/\text{g}$
Frequency Adjust:	$\pm 7\text{ppm}$ typical for 0 to Vcc EFC
Supply Voltage:	+5.0 VDC
Supply Current:	< 25mA

Designed and manufactured by Greenray Industries Inc.

### STABILITY OVER TEMPERATURE

Temp. Range	Stability	Option Code
$-40^\circ \sim +85^\circ\text{C}$	$\pm 0.5\text{ppm}$	T57
$-40^\circ \sim +85^\circ\text{C}$	$\pm 1.0\text{ppm}$	T16
$-55^\circ \sim +95^\circ\text{C}$	$\pm 3.0\text{ppm}$	V36

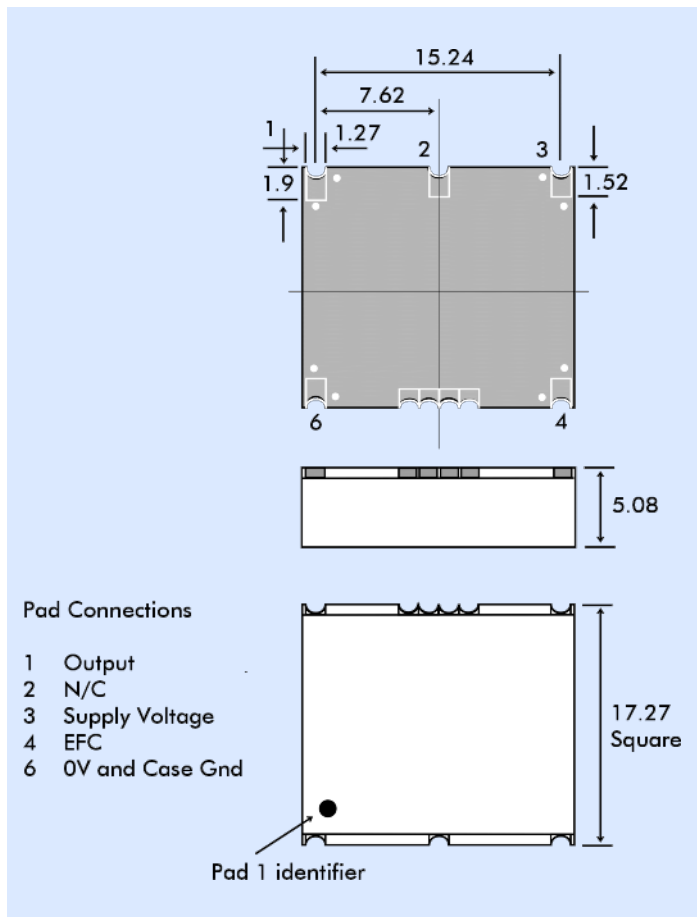
### PHASE NOISE

Offset	Static dBc/Hz
10Hz	-75
100Hz	-102
1kHz	-125
10kHz	-140
100kHz	-145

### ENVIRONMENTAL

Vibration:	per MIL-STD-202F, Meth. 214, Cond. II H, 3 min/axis
Shock:	per MIL-STD-202F, Meth. 213, 90g's peak $\frac{1}{2}$ sine, 5ms
Storage Temperature:	$-55^\circ$ to $+105^\circ\text{C}$

### T121 - OUTLINES AND DIMENSIONS



### PART NUMBERING PROCEDURE

Example:

**T121-T57-100.0MHz**

