

- Rugged construction for severe environments
- Ultra-low Frequency
- Frequency Range: 650Hz - 1.25MHz
- Tight temperature stability, from  $\pm 0.3\text{ppm}$  over  $-20^\circ$  to  $+70^\circ\text{C}$
- Output Signal: CMOS Squarewave



**SPECIFICATIONS**

Frequency Range:	650Hz to 1.25MHz
Output:	CMOS
Output Level:	0 to +0.2 max. To $V_{cc}-0.27\text{V}$ min
Symmetry:	50/50 $\pm 5\%$
Frequency Stability:	See table
Voltage Stability:	$\pm 0.3\text{ppm}$ for a $\pm 5\%$ change
Load Stability:	$\pm 0.3\text{ppm}$ for a $\pm 5\%$ change
Ageing:	<0.5ppm/year
Total Stability:	$\pm 5\text{ppm}$ max from nominal over 10 years (Includes temp., voltage, load & ageing)
Frequency Adjust:	$\pm 7\text{ppm}$ typical for 0 to +3.0V EFC
Supply Voltage:	+3.3 VDC
Supply Current:	<20mA

**ENVIRONMENTAL**

Vibration:	per MIL-STD-202F, Meth. 214, Cond. II F
Shock:	per MIL-STD-202F, Meth. 213, 90g's peak $\frac{1}{2}$ sine, 5ms
Storage Temperature:	$-54^\circ$ to $+105^\circ\text{C}$

*Designed and manufactured by Greenray Industries Inc.*

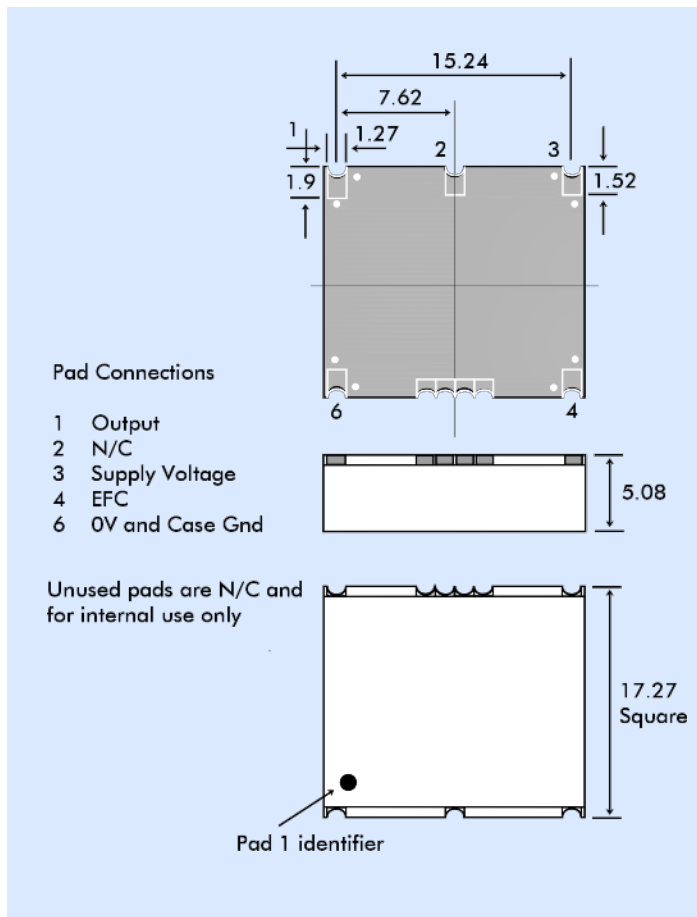
**STABILITY OVER TEMPERATURE**

Temp. Range	Stability	Part No. Code
$-20\sim+70^\circ\text{C}$	$\pm 0.3\text{ppm}$	N37
$-20\sim+70^\circ\text{C}$	$\pm 0.5\text{ppm}$	N57
$-40\sim+85^\circ\text{C}$	$\pm 0.3\text{ppm}$	T37
$-40\sim+85^\circ\text{C}$	$\pm 0.5\text{ppm}$	T57
$-40\sim+85^\circ\text{C}$	$\pm 1.0\text{ppm}$	T16

**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 $+105^\circ\text{C}$

**T124 - OUTLINES AND DIMENSIONS**



**PART NUMBERING**

Example: **T124-T16-10.0kHz**

