



T75 Series TCXO

10 MHz to 50 MHz
(Rev. J)

GREENRAY INDUSTRIES, INC.

PRECISION QUARTZ TECHNOLOGY

SPECIFICATIONS

Very Rugged TCXO
Tight Temp Stability

Frequency	10.0 MHz to 50.0MHz		
Output	CMOS or Clipped Sinewave		
Symmetry	50% $\pm$ 10% (CMOS)		
Output Level	Clipped SINE - +0.8V p-p typ into 10pF/10k ohm load; HCMOS – T75 - +0.2V max to +2.8V min; T76 - +0.2V max to +4.2V min (15pF load)		
Temp Stability (other stabilities available)	Temp Range	Tolerance	Option
	-10°C to +60°C	$\pm$ 0.3 ppM	G37
	-20°C to +70°C	$\pm$ 0.5 ppM	N57
	-40°C to +85°C	$\pm$ 0.5 ppM	T57
	-40°C to +85°C	$\pm$ 1.0 ppM	T16
	-55°C to +95°C	$\pm$ 3.0 ppM	V36
Aging	<1 ppM/yr (10 MHz typ)		
Freq Adjust	$\pm$ 7 ppM typ via 0 to V _{cc} control V, positive slope		
Supply Voltage	+3.3 VDC $\pm$ 5% or +5.0 VDC		
Supply Current	< 6mA for HCMOS; < 3mA for SINE		
Accel Sensitivity	$\leq$ 2.5x10 ⁻⁹ /g ("SD" option); $\leq$ 7x10 ⁻¹⁰ /g ("LG" option)		
Environmentals			

Vibration – per MIL-STD-202G, Meth 214,
Cond I-F

Shock - per MIL-STD-202G, Meth 213,
Cond F

(Shock level available up to 50000g!)

Ordering Information:

Model	Input V	Output
T75	+3.3V	HCMOS
T76	+5.0V	HCMOS
T77	+3.3V	SINEWAVE
T78	+5.0V	SINEWAVE

Ordering Example:

T75-T57-LG-20.0MHz
(Model-Stability-GSense-Freq)

Pad Connections

- 1 - EFC
- 2 - Internal Use Only
- 3 - 0 V & Case Gnd
- 4 - Output
- 5 - Tri-State (enable Hi or float)
- 6 - VSupply
- A - Internal Use Only
- B - Internal Use Only

