



- **Good Phase Noise over MIL temperature range**
- **Wide frequency range**
- **Output Squarewave, AC MOS available 1.25MHz to 50MHz**
- **Output PECL available**
- **Industry-standard dual-in-line package**

**DESCRIPTION**

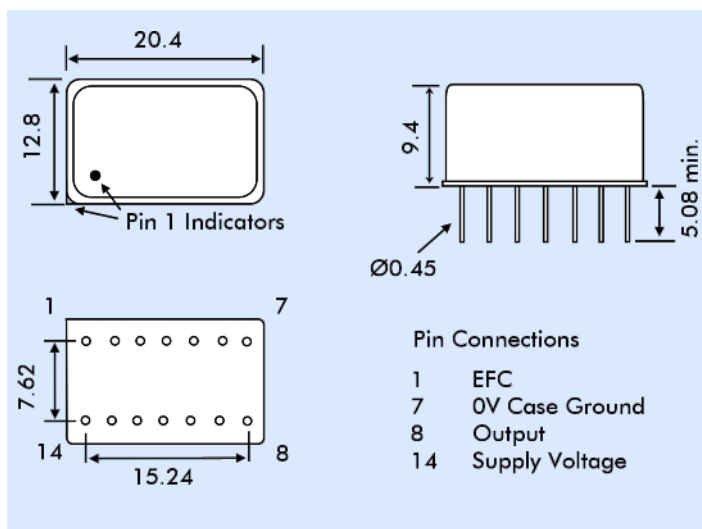
ZT620 series TCXOs are standard-packaged parts providing extended shock and vibration performance with close tolerance temperature stability. The part provides tight stability from  $\pm 2 \times 10^{-7}$  ppm over  $-10^\circ$  to  $+60^\circ\text{C}$ .

**GENERAL SPECIFICATION**

Frequency Range:	1.25MHz to 300.0MHz
Output	Model ZT620/ZT621: Squarewave, AC MOS (available from 1.25MHz to 50.0MHz) Model ZT622/XT623: PECL (available from 50MHz to 300MHz)
Load	AC MOS: 15pF $\pm 5\%$ PECL: 50 $\Omega$ to $V_{\text{SUPPLY}} - 2.0\text{V}$
Symmetry:	50% $\pm 10\%$
Ageing:	$\pm 2 \times 10^{-9}$ per day after 30 days
Input Voltage	ZT620 & ZT622: +5.0VDC $\pm 5\%$ ZT621 & ZT623: +3.3VDC $\pm 5\%$
Frequency Adjust:	$\pm 5$ ppm typical positive slope 0 to $V_{\text{SUPPLY}}$ EFC

*Designed and manufactured by Greenray Industries Inc.*

**OUTLINES AND DIMENSIONS**

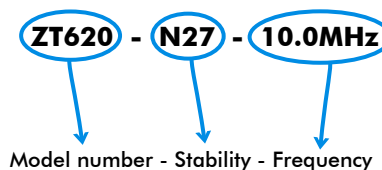


**STABILITY OVER TEMPERATURE**

Temp. Range	Stability	Part No. Code
-10~+60°C	$\pm 2 \times 10^{-7}$ ppm	G27
-20~+70°C	$\pm 3 \times 10^{-7}$ ppm	N37
-40~+85°C	$\pm 5 \times 10^{-7}$ ppm	T57
-40~+85°C	$\pm 12 \times 10^{-6}$ ppm	T16

**PART NUMBERING**

Example: **ZT620-N27-10.0MHz**



**PHASE NOISE (At 10MHz, Typical)**

Offset	dBc/Hz
10Hz	-95
100Hz	-125
1kHz	-140
10kHz	-150
100kHz	-155