



GREENRAY INDUSTRIES, INC.

ZT580 Series TCXO

20.0 KHz – 25.0 MHz

PRECISION QUARTZ TECHNOLOGY

High Shock & Vibration Applications
Optional Screening to MIL-38534
Hybrid Construction
14 PIN DIP
HCMOS Output
5.0V Supply

PRELIMINARY SPECIFICATIONS

Frequency	20.0 KHz to 25.0 MHz		
Output	Square Wave 50/50 $\pm$ 20% Duty Cycle		
Input Voltage	+5 Vdc $\pm$ 5%		
Input Current	70 mA Maximum		
Operating Temperature/Stability	Temperature Range	Tolerance	Model
	+10 to +50°C	$\pm$ 2 ppm	ZT580
	0 to +70°C	$\pm$ 3 ppm	ZT581
	-10 to +80°C	$\pm$ 5 ppm	ZT582
	-40 to +85°C	$\pm$ 15 ppm	ZT583
	-55 to +125°C	$\pm$ 30 ppm	ZT584
Ext. Frequency Control Pin 1	External variable capacitor supplied with unit to set exactly on frequency		

** Contact factory for your specific environmental requirements. **

OPTIONAL: MIL-PRF-38534 DEVICE SCREENING to CLASS H

Test or Inspection	MIL-STD-883	
	Method	Condition
Pre-seal Burn-in	1030	
Internal Visual	2017	
Temperature Cycling	1010	C
Constant Acceleration	2001	3000g's
Burn-in	1015	
Final Electrical Test	In accordance with applicable device specification	
Seal (fine and gross)	1014	
External Visual	2009	

STANDARD ENVIRONMENTAL SPECIFICATION

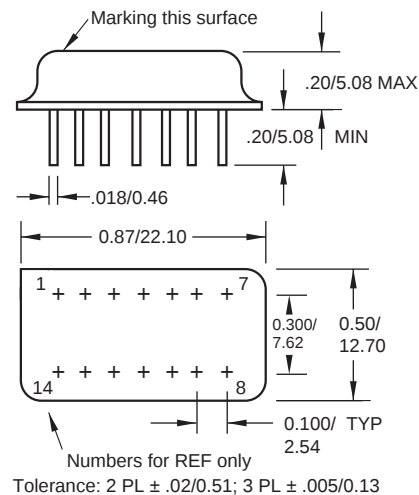
Shock:	100 g's, 6ms, half-sine. MIL STD 202 Method 213, Condition C
Vibration:	10 g's 55-2000Hz MIL STD 202, Method 204, Condition C

Higher Limits are available Upon Request

Ordering Example: ZT580 - 20.0 KHz
(Model# - Frequency)

PIN CONNECTIONS

- 1 – EFC
- 3 – GND
- 7 – 0V, Case GND
- 14 – Output
- All others are N/C



Dimensions: Inches (mm)

To inquire about available custom parameters please contact us at sales@greenrayindustries.com.