



GREENRAY INDUSTRIES, INC.

ZT560 Series TCXO

20.0 KHz – 30.0 MHz

PRECISION QUARTZ TECHNOLOGY

Wide Temperature Operation
Low Phase Noise
4 PIN DIP
HCMOS Output
5, 12 or 15V Supply

PRELIMINARY SPECIFICATIONS

Frequency	20.0 KHz to 30.0 MHz		
Output	HCMOS		
Input Voltage	+5 Vdc $\pm$ 5%, +12 Vdc $\pm$ 5%, +15 Vdc $\pm$ 5%,		
Input Current	15 mA (typical @ 10 MHz)		
	Temperature Range	Tolerance	Model
	0 to +50°C	$\pm$ 1 ppm	B16
Operating	-20 to +70°C	$\pm$ 2.5 ppm	N256
Temperature/Stability	-40 to +85°C	$\pm$ 3 ppm	T36
	-55 to +125°C	$\pm$ 5 ppm	X56
Ext. Frequency Control Pin 1	> $\pm$ 5 ppm Positive Slope		
Aging	$\pm$ 1.0 ppm 1 st year		
Phase Noise	Offset Frequency (Hz)	dBc/Hz	
(Typical @ 10 MHz)	10	-90	
	100	-120	
	1K	-140	
	10K	-150	
	100K	-152	

Model	Input Voltage	Output	Temperature Stability Options			
ZT560	+5.0 Vdc	HCMOS	B16	N256	T36	X56
ZT561	+12.0 Vdc	HCMOS	B16	N256	T36	X56
ZT562	+15.0 Vdc	HCMOS	B16	N256	T36	X56

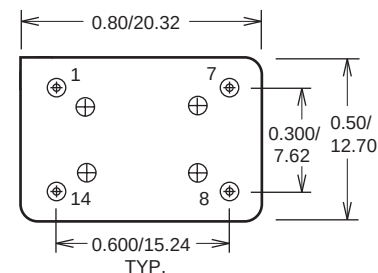
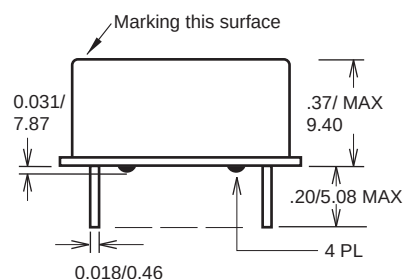
Ordering Example: ZT560 - B - 16 - 20.0 KHz
(Model# - Stability - Frequency)

Screening and Qualification Testing available to
MIL-PRF-55310, Product Level B.
Available in 14 PIN upon request.
Surface Mount Available (ZT570 Series)

PIN CONNECTIONS

- 1 – EFC
- 7 – 0V, Case GND
- 8 – Output
- 14 – Input Voltage

Dimensions: Inches (mm)



Tolerance: 2 PL $\pm$.02/0.51; 3 PL $\pm$.005/0.13
(Pin # for reference only)

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



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Wide Temperature Operation
Low Phase Noise
4 PIN DIP
HCMOS Output
5, 12 or 15V Supply

SPECIFICATIONS

Frequency	20.0 KHz to 30.0 MHz		
Output	HCMOS		
Input Voltage	+5 Vdc $\pm$ 5%, +12 Vdc $\pm$ 5%, +15 Vdc $\pm$ 5%,		
Input Current	15 mA (typical @ 10 MHz)		
Operating Temperature/Stability	Temperature Range	Tolerance	Model
	0 to +50°C	$\pm$ 1 ppm	B16
	-20 to +70°C	$\pm$ 2.5 ppm	N256
	-40 to +85°C	$\pm$ 3 ppm	T36
	-55 to +125°C	$\pm$ 5 ppm	X56
Ext. Frequency Control Pin 1	> $\pm$ 5 ppm Positive Slope		
Aging	$\pm$ 1.0 ppm 1 st year		
Phase Noise	Offset Frequency (Hz)	dBc/Hz	
(Typical @ 10 MHz)	10	-90	
Max. 3dBc Higher)	100	-120	
	1K	-140	
	10K	-152	
	100K	-155	

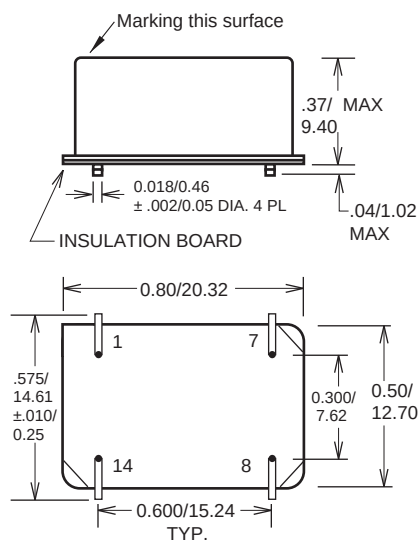
Model	Input Voltage	Output	Temperature Stability Options			
ZT570	+5.0 Vdc	HCMOS	B16	N256	T36	X56
ZT571	+12.0 Vdc	HCMOS	B16	N256	T36	X56
ZT572	+15.0 Vdc	HCMOS	B16	N256	T36	X56

Ordering Example: ZT570 - B - 16 - 20.0 KHz
(Model# - Stability - Frequency)

Screening and Qualification Testing available to
MIL-PRF-55310, Product Level B.
Available in 14 PIN upon request.
Leaded Version Available (ZT560 Series)

PIN CONNECTIONS

- 1 – EFC
- 7 – 0V, Case GND
- 8 – Output
- 14 – Input Voltage



Dimensions: Inches (mm)

Tolerance: 2 PL $\pm$.02/0.51; 3 PL $\pm$.005/0.13
(Pin # for reference only)

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