



# ZT620 to ZT623 Series TCXO

1.25MHz – 200MHz  
(Rev B)

GREENRAY INDUSTRIES, INC.

PRECISION QUARTZ TECHNOLOGY

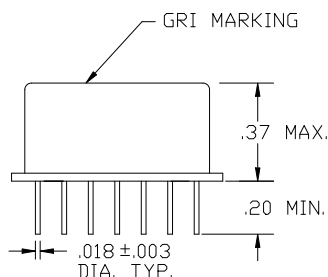
Standard DIP Package  
Tight Stability/Low Noise

## SPECIFICATIONS

|                                     |                                                                                                              |                     |               |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------------|---------------|
| <b>Frequency</b>                    | 1.25 MHz to 300.0 MHz                                                                                        |                     |               |
| <b>Output</b>                       | ZT620/ZT621 - Squarewave, ACMOS (available at 1.25 to 50 MHz)<br>ZT622/ZT623 – PECL (available 50 to 200MHz) |                     |               |
| <b>Load</b>                         | ACMOS – 15pF ±5%<br>PECL – 50 ohms to V <sub>supply</sub> – 2.0V                                             |                     |               |
| <b>Symmetry</b>                     | 50% ±10%                                                                                                     |                     |               |
| <b>Temp Stability</b>               | <b>Temp Range</b>                                                                                            | <b>Tolerance</b>    | <b>Option</b> |
|                                     | -10 to +60°C                                                                                                 | ±2x10 <sup>-7</sup> | G27           |
|                                     | -20 to +70°C                                                                                                 | ±3x10 <sup>-7</sup> | N37           |
|                                     | -40 to +85°C                                                                                                 | ±5x10 <sup>-7</sup> | T57           |
|                                     | -40 to +85°C                                                                                                 | ±1x10 <sup>-6</sup> | T16           |
| <b>Aging</b>                        | ±2x10 <sup>-9</sup> per day after 30 days (10MHz typ)                                                        |                     |               |
| <b>Input V</b>                      | ZT620 & ZT622 - +5.0VDC ±5%<br>ZT621 & ZT623 - +3.3VDC ±5%                                                   |                     |               |
| <b>Phase Noise</b><br>(typ @ 10MHz) | 10Hz                                                                                                         | -95dBc/Hz           |               |
|                                     | 100Hz                                                                                                        | -125dBc/Hz          |               |
|                                     | 1kHz                                                                                                         | -140dBc/Hz          |               |
|                                     | 10kHz                                                                                                        | -150dBc/Hz          |               |
|                                     | 100kHz                                                                                                       | -155dBc/Hz          |               |
| <b>Frequency Adjust</b>             | ±5.0ppM typ, positive slope<br>0 to V <sub>supply</sub> EFC                                                  |                     |               |

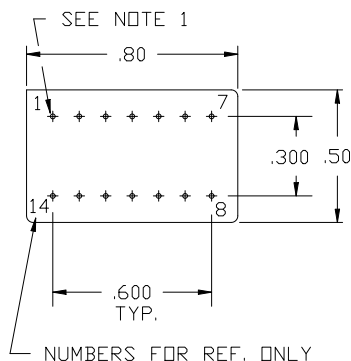
Ordering Example:

ZT620-N27-10.0 MHz  
(Model-Stability-Frequency)



### Pin Connections:

- 1 - EFC
- 7 - 0V/Case Gnd
- 8 - Output
- 14 - Supply V



To inquire about available custom parameters, please contact us at [sales@greenrayindustries.com](mailto:sales@greenrayindustries.com).

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