











Q-Tech now offers ultra-miniature high reliability crystal oscillators, TCXOs and VCXOs in packages as small as 2.5 x 3.2 mm. These oscillators are fully qualified, configuration controlled, and thoroughly tested to meet the same high standards as our older, bigger products. Capable of covering the full temperature range of -55 °C to +125 °C with tight stability and low aging, the products also offer low phase noise and jitter. Furthermore, Q-Tech offers short lead times, with 8 weeks maximum and in many cases only 2 weeks lead time for standard parts.



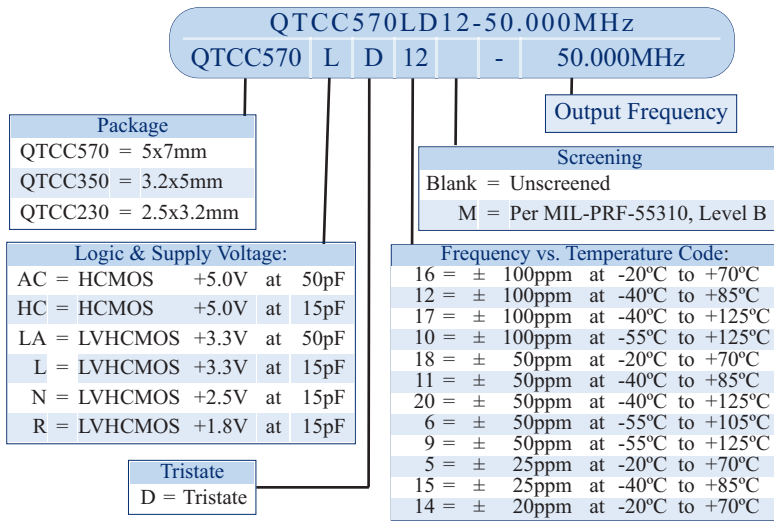
Three package sizes with dime for reference (US Dime is 17.9mm in diameter)

### Highlights

- Packages as small as 2.5 x 3.2 mm
- Full military temperature range of -55 °C to +125 °C
- Low phase noise
- Low jitter
- Fully qualified
- High Reliability
- Configuration Controlled
- TCXO stabilities as tight as ±0.5 PPM
- Quick lead times, 8 weeks guaranteed worst case, 2 weeks typical for repeat orders
- Great customer service

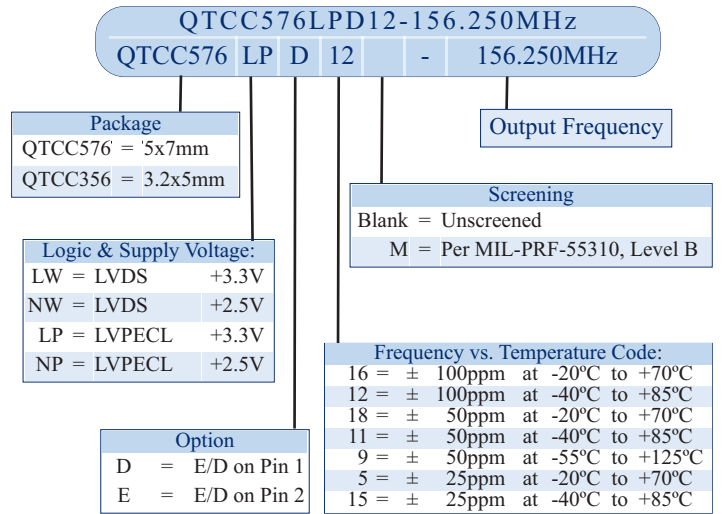
Image (Actual Size)	Q-Tech Package	Dimensions (mm)	Product Type	Logic	Voltage	Frequency Range	Stability	Typical Phase Noise (100kHz)
	QTCC230	2.50x3.20x1.15 4 Pad	XO	CMOS	1.8 to 3.3Vdc	625kHz to 133MHz	50ppm to 100ppm	-156 dBc/Hz @80MHz
	QTCC350	3.20x5.00x1.20 4 Pad	XO	CMOS	1.8 to 5.0Vdc	32.768kHz to 125MHz	20ppm to 100ppm	-158 dBc/Hz @80MHz
	QTCC570	5.00x7.00x1.40 4 Pad	XO	CMOS	1.8 to 5.0Vdc	1.544MHz to 190MHz	20ppm to 100ppm	-156 dBc/Hz @100MHz
	QTCC356	3.20x5.00x1.20 6 Pad	XO	LVDS LVPECL	2.5 to 3.3Vdc	25MHz to 250MHz	25ppm to 100ppm	-146 dBc/Hz @100MHz
	QTCC576	5.00x7.00x1.50 6 Pad	XO	LVDS LVPECL	2.5 to 3.3Vdc	25MHz to 250MHz	25ppm to 100ppm	-150 dBc/Hz @100MHz
	QTCT230	2.50x3.20x0.90 4 Pad	TCXO	Clipped Sine	2.8 to 3.3Vdc	10MHz to 45MHz	1ppm to 2.5ppm	-150 dBc/Hz @19.2MHz
	QTCT350	3.20x5.00x1.10 4 Pad	TCXO	CMOS Clipped Sine	3.3 to 5.0Vdc	10MHz to 52MHz	0.5ppm to 2.5ppm	-156 dBc/Hz -158 dBc/Hz @12.8MHz
	QTCT570	5.00x7.00x1.90 4 Pad	TCXO	CMOS Clipped Sine	2.8 to 3.3Vdc	5MHz to 52MHz	0.5ppm to 2.5ppm	-156 dBc/Hz -153 dBc/Hz @12.8MHz
	QTCV356	3.20x5.00x1.20 6 Pad	VCXO	CMOS PECL	3.3 to 5.0Vdc	1MHz to 156.25MHz	25ppm APR to 100ppm APR	-157 dBc/Hz -157 dBc/Hz @122.88MHz
	QTCV576	5.00x7.00x1.50 6 Pad	VCXO	CMOS PECL	3.3 to 5.0Vdc	1MHz to 156.25MHz	30ppm APR to 100ppm APR	-155 dBc/Hz -145 dBc/Hz @61.44MHz

### XO (CMOS)



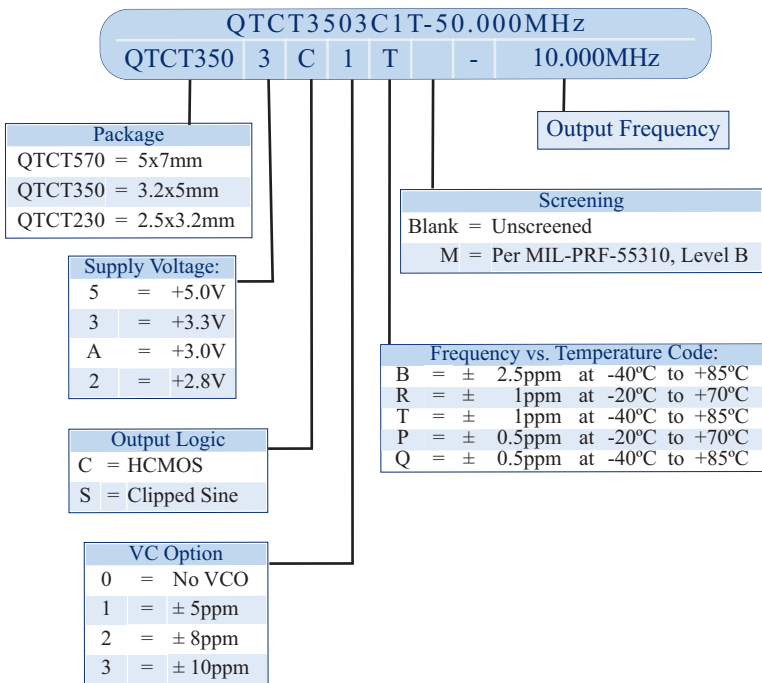
Note:  
 Supply options AC, HC, and LA are not available for QTCC230.  
 Stability Code 14 is not available for QTCC230.

### XO (PECL, LVDS)



Note: Stability code 9 is not available for QTCC356

### TCXOs



Note:  
 Voltage option 5 is not available for QTCT230.

### VCXOs

