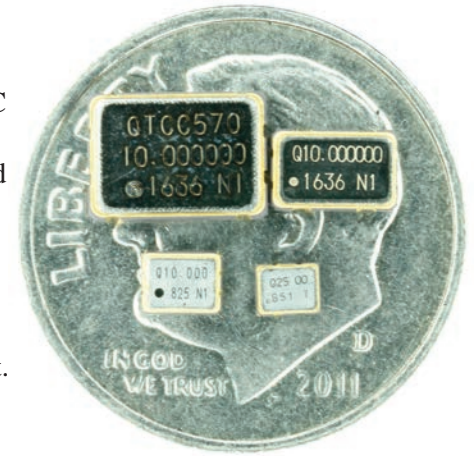


Q-TECH
CORPORATION

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 max and in many cases only 2 weeks lead time for standard parts.



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

Highlights

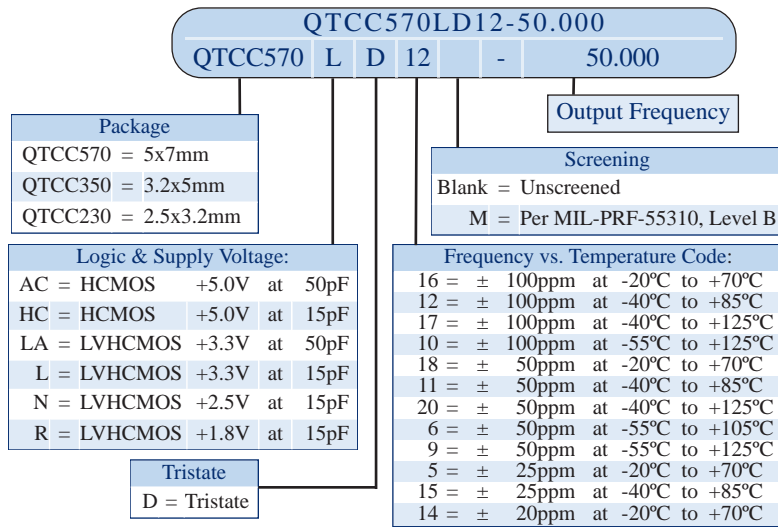
- Packages as small as 2.5 x 3.2 mm.
- Gold plated standard lead finish.
- Sn60/Pb40 hot solder dip or SAC305 lead free solder available for additional cost.
- Full military temperature range of -55 °C to +125 °C.
- Low phase noise, low jitter.
- Qualified to MIL-PRF-55310, Level B.
- TCXO stabilities as tight as ±0.5 PPM.
- Quick lead times, 8 weeks guaranteed worst case, 2 weeks typical for repeat orders.
- Shock data available upon request.

Image	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
	QTCC578	5.00x7.00x1.50 6 Pad	XO	LVDS	2.5 to 3.3Vdc	100MHz to 250MHz	25ppm to 100ppm	-155 dBc/Hz @156.250MHz
	QTCT220	2.00x2.50x0.70 4 Pad	TCXO	Clipped Sine	2.8 to 3.3Vdc	10MHz to 52MHz	0.5ppm to 2.5ppm	-150dBc/Hz @ 19.2 MHz
	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
	QTCT236	2.50x3.20x1.60 6 Pad	TCXO	CMOS LVDS LVPECL	2.5 or 3.3Vdc	10MHz to 1.5GHz	0.5ppm to 2.5ppm	-114dBc/Hz @ 250MHz
	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 @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



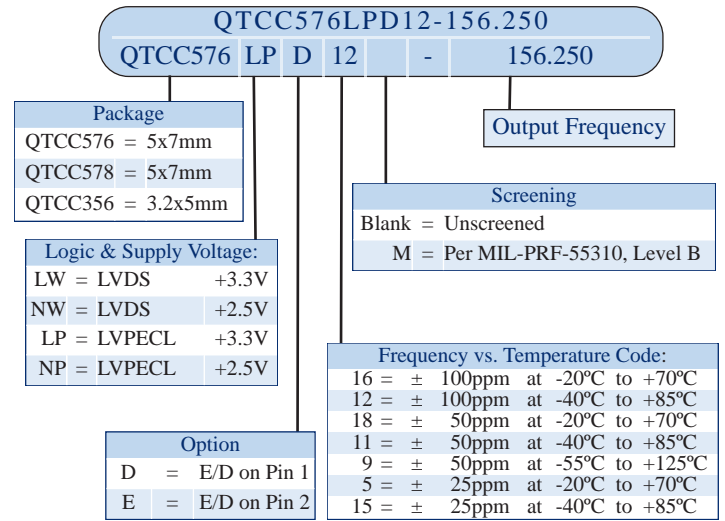


XO (CMOS)



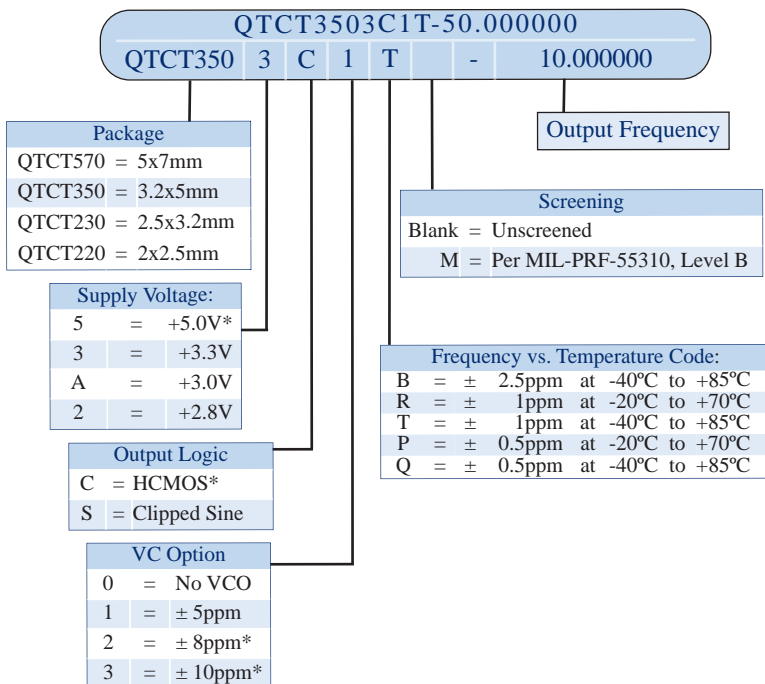
Note:
 Supply options AC, HC, and LA are not available for QTCC230.
 Stability Code 14 is not available for QTCC230.

XO (PECL, LVDS)



Note: Stability code 9 is not available for QTCC356

TCXOs



Notes:
 - Voltage option 5 is not available for QTCT230 or QTCT220.
 - Ordering options marked with an asterisk (*) are not available for QTCT220.
 - QTCT236 offers a wide frequency range 10MHz to 1.5GHz in CMOS, LVDS or LVPECL outputs. See data sheet for ordering options.

VCXOs

