

Ultra-Miniature (5x3mm), SMD TCXOs with VC Option

TC533 • TC535 • TCV533 • TCV535

(3.3V) (5.0V) (3.3V, VC Control) (5.0V, VC Control)

SPECIFICATIONS	TC533 / TCV533	TC535 / TCV535
Power Supply	3.3V ± 0.3V	5.0V ± 0.5V
Developed Frequencies (MHz)	13.00 14.40 19.20 19.68	
Oper Temp Range	-30°C to +75°C	
Supply Current	2.0 mA max	
Frequency Stability		
vs Temperature	± 2.5 ppm	
vs Aging	± 1.0 ppm max / year @ 25°C	
vs Power Supply	2.3 ppm vs VCC ± 5%	
Output		
Load	10K Ω / 10 pF	
Level	0.8V p-p min (Clipped Sine Wave)	
Phase Noise	130 dBc/Hz max @ 1.0 kHz	
Start Time	10.0 ms max	
Pull Range	± 4.0 ppm min, centered @ 1.5 VDC ± 1.0 VDC	
(TCV533 / TCV535 ONLY)	(Positive Coefficient)	

APPLICATIONS

- Mobile communications
- Wireless RF
- Test equipment

FEATURES

- Very tight stability
- Wide temperature range
- Optional supply voltages
- Voltage control option

PART NUMBERING KEY

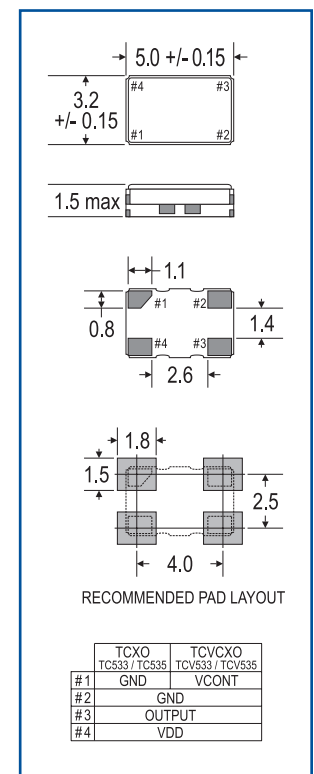
Sample Part Numbers

	SERIES	VOLTAGE CONTROL	PACKAGING	FREQUENCY (MHz)
TC533A @ 13.0 MHz	TC53	3 = 3.3V	A = Bulk	13.0
TCV535E @ 14.4 MHz	TCV53	5 = 5.0V	E = Tape & Reel (Qty/Reel TBD)	14.4

Use full descriptive part number when ordering.

Parts will be marked with frequency only.

Monitor Products has a proven track record as a pioneer manufacturer in the frequency control market. If our extensive selection of standard and engineered crystals and oscillators does not meet your spec, we will work with you towards a customized solution.



TC533/TC535
TCV533/TCV535

Units = mm