

# VFTX312

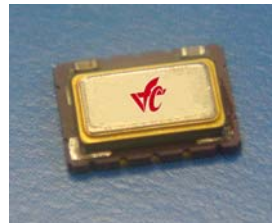
## TCXO with Voltage Control Option

### 5x7mm, HCMOS



#### Features

- 0.1ppm stability
- Frequency of 26MHz
- Fundamental mode crystal
- Low power consumption



#### RoHS Status



#### Applications

- Femtocell reference timing

#### Electrical Specifications

Parameter	Symbol	Condition	Min	Typ	Max	Unit	Note
Frequency Range	F			26			
Frequency Stability	$\Delta F/F$	Vs. Operating Temperature -20°C to +70°C +30°C to +65°C Overall Stability			$\pm 0.28$ $\pm 0.10$ $\pm 4.6$	ppm	
Operating Temperature Range	T		-20°		+70°	°C	
Supply Voltage	Vcc		3.13	3.30	3.47	V	
Supply Voltage Stability		3.3V $\pm 10\%$			$\pm 0.3$	ppm	
Supply current	Icc				6	mA	
Voltage Control	Vc		0		3.3	V	
Vc Input Impedance			100K			$\Omega$	
APR		APR inclusive of aging over 20 years.	$\pm 5$ $\pm 12$			ppm	See Ordering Information
Deviation slope			Monotonic positive				
Linearity			-10		+10	ppm/V	
Modulation BW			10			KHz	3dB BW
SSB Phase Noise		@ 1Hz @ 10Hz @ 100Hz @ 1 KHz @ 10 KHz @ 100KHz			-50 -90 -120 -140 -145 -150	dBc/Hz	
Phase Jitter		1 $\sigma$ over 12KHz ~ 20MHz			3.5	ps	
Start up					2	ms	
Duty Cycle					45/55	%	
Rise/Fall Time					5	ns	
Load					15	pF	
Storage Temp.			-55		+125	°C	



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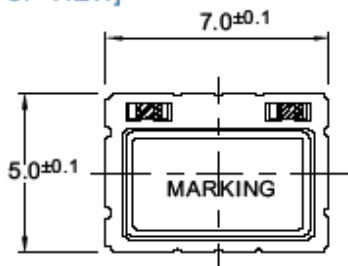
### How to Order



APR

Code	Specification
T	TCXO
A	±5ppm
D	±12ppm

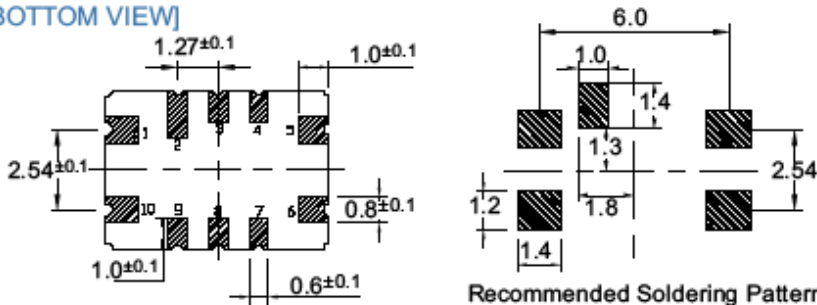
[TOP VIEW]



[SIDE VIEW]



[BOTTOM VIEW]



PIN	Specification
1	Vcontrol or NC
5	GND
6	Output
9	Tristate control / NC
10	Vcc

Parameter	Test Condition	Reference Standard
Thermal Shock	-55°C to +125°C, 10minutes, 200 cycles	MIL-STD-883D 1011.9, cond. B
High Temp. & humidity	85°C, 85% humidity, 500 hours	JIS-C 7022B-5, Cond. C
Low Temp.	-40°C, -2°C, 500 hours	MIL-STD-883D 1009.8, cond. C
Aging	+85°C, +125°C, 1,2,4,7,10,20,50,100 days test time	MIL-STD-883D 1008
Mechanical Shock	1500g, half sinewave, 0.5ms, 3 axis, 3 times	MIL-STD-883D 2002.3, cond. B
Vibration	20Hz to 20KHz, 1.5mm, 20g, 3 axis 4 hours sinewave	MIL-STD-883D 2005.2, cond. B
IR reflow	245°C ±5°C, 5±0.5 seconds (maximum)	

