

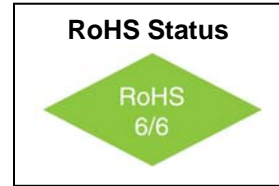
# VFTX302

## TCXO with Voltage Control Option

### 5x7mm Surface Mount, Clipped Sine Wave/CMOS

#### Features

- Frequency range of 10MHz to 40MHz
- Excellent Frequency Stability
- Low Phase noise
- Wide range of pullability options
- Low power consumption



#### Applications

- Portable equipment
- Telecommunications
- Data acquisition

Parameter	Symbol	Condition	Min	Typ	Max	Unit	Note
Frequency Range	F		10 26		40 40	MHz	5V 3V
Frequency Stability	$\Delta F/F$	Vs. Operating Temperature B: 0°C to +70°C G: -40°C to +85°C			0.5 1.0	ppm	
		Vs. Supply Voltage Vs. Aging / Year		$\pm 0.2$ $\pm 1$		ppm/V ppm	
Operating Temperature Range	T		0° -40°		+70° +85°	°C	Order Code B Order Code G
Output		Clipped Sine	0.8Vp-p minimum				
Load		10K $\Omega$ /10pF					
Supply Voltage	V <sub>CC</sub>	External 150pF decoupling capacitor recommended	4.75 3.15	5.00 3.30	5.25 3.45	V	Order Code D Order Code E
Voltage Control	V <sub>C</sub>		0.5 0.5		4.5 2.5	V	
Input Impedance			1M			$\Omega$	
Pullability						ppm	See Ordering Information
Deviation slope		<i>Monotonic positive</i>					
Linearity			-10		+10	ppm/V	
Modulation BW			10			KHz	3dB BW
SSB Phase Noise		@100 Hz @ 1 KHz @10 KHz		-115 -135 -150		dBc/Hz	Fo=13MHz
Start up					2	ms	

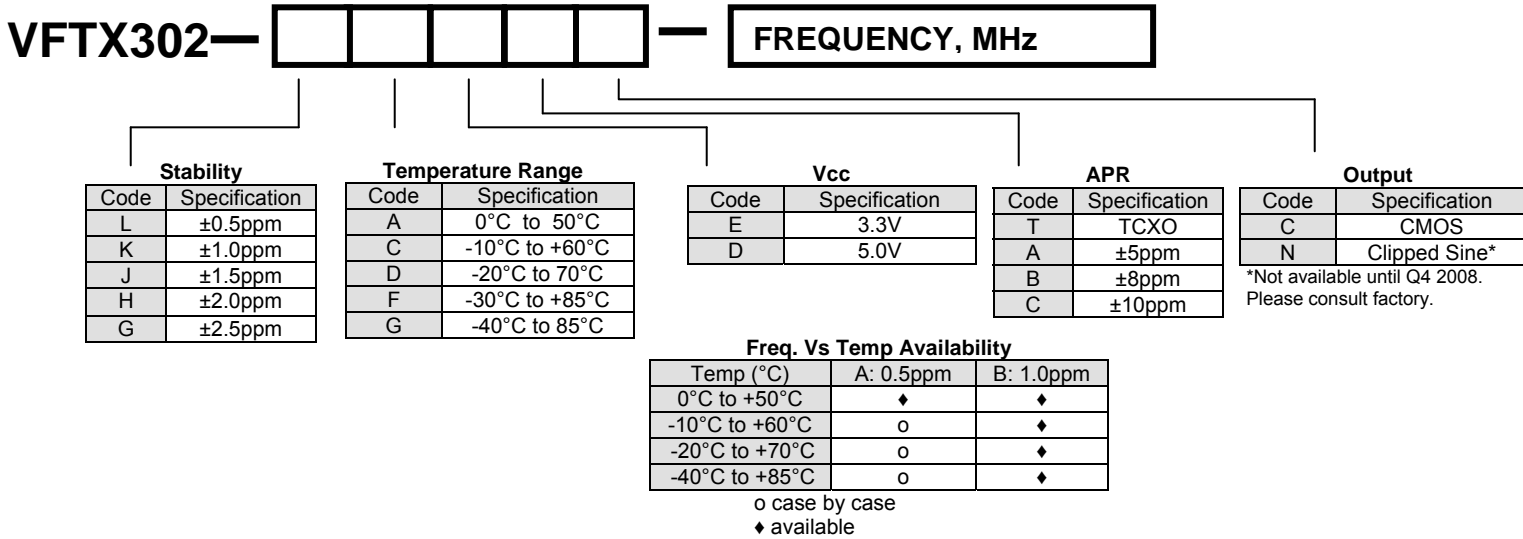
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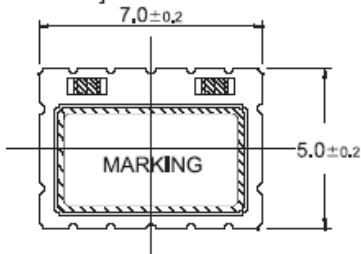
### 5x7mm Surface Mount, Clipped Sine Wave/CMOS



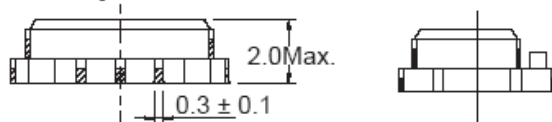
### How to Order



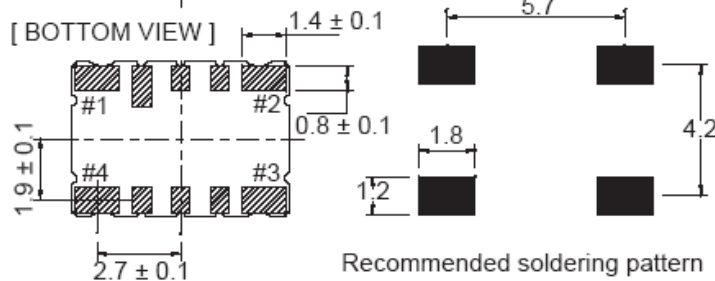
[ TOP VIEW ]



[ SIDE VIEW ]



[ BOTTOM VIEW ]



PIN	Specification
1	Vc or GND
2	GND
3	Output
4	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)	

