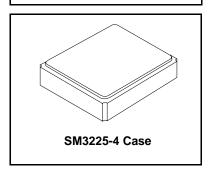


XVT9003

- Voltage Controlled Temperature Compensated Crystal Oscillator
- Application: Wireless Communication Devices
- Excellent Frequency Stability & Low Phase Noise
- 3.2 x 2.5 x 1.3 mm Surface-Mount Case
- Complies with Directive 2002/95/EC (RoHS)



19.200 MHz VCTCXO



Electrical Characteristics

Characteristic	Sym	Notes	Minimum	Typical	Maximum	Units		
Nominal Frequency	Fo			19.200000		MHz		
Storage Temperature Range			-40		+85	°C		
Operating Temperature Range			-30		+80	°C		
Power Supply Voltage	Vcc			2.8		V		
Output Voltage with Load 10 pF \parallel 10K Ω	Vout		0.8			V _{P-P}		
Output Waveform			Clipped Sinewave					
Power Supply Current	Icc				1.5	mA		
Control Voltage	Vcon			1.4±1.0		V		
Control Voltage Input Impedance			100K			ohms		
Frequency Tolerance, Vcontrol = 1.4 V, after Two Reflows			±1.5 p					
Frequency Stability versus:								
Temperature, -30 to 80 °C				±2.5		ppm		
Load, 10 pF 10 K Ω ±10%				±0.2		ppm		
Supply Voltage, 2.8 V ±5%				±0.2		ppm		
Control Voltage Frequency Range, 1.4 ±1.0 V			±5.5		±9.5	ppm		
Start Up Time, 90% of final RF level in V _{P-P}					3.0	ms		
Harmonics					-5.0	dBc		
Aging			±1.0 ppm/year @ 25 °C					
Stanard Shipping Quantity on 180 mm (7") Reel				1000		units		
Lid Symbolization (in addition to Lot and/or Date Codes)	TBD							



CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

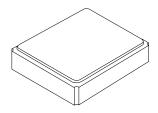
Notes:

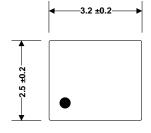
1. The design, manufacturing process, and specifications of this device are subject to change without notice.

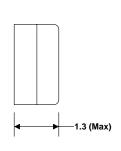
SM3225-4 Case

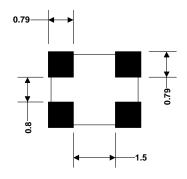
4-Terminal Surface-Mount Seam Weld Case

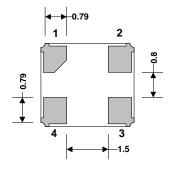
3.2 x 2.5 mm Nominal Footprint







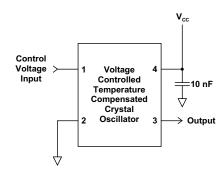




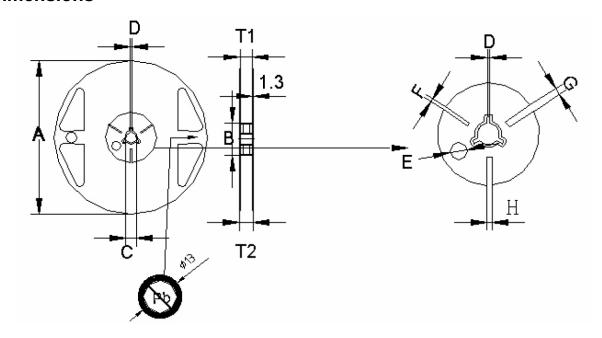
Dimensions in mm

Pin Connection 1 Vcon 2 GND/CASE GND 3 Output 4 Vcc

Application Circuit

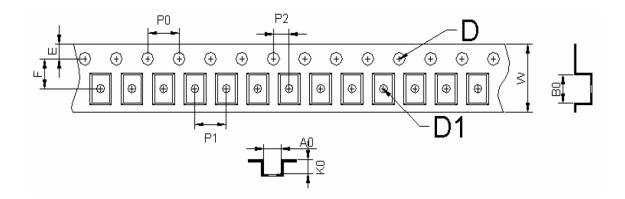


Reel Dimensions



mm	Α	В	С	D	Е	F	G	H	T1	T2	Т3
Dimension	180	60	13.0	2.0	9.1	2.9	4.9	3.9	9.0	11.4	1.2
Tolerance	±1.0	+1.0/-0.0	±0.2	±0.5	±0.5	±0.5	±0.5	±0.5	±0.3	±1.0	±0.1

Tape Dimensions



mm	A0	В0	W	F	Е	P0	P1	P2	D1	D	K0	t
Dimension	2.80	3.71	8.00	3.50	1.75	4.00	4.00	2.00	1.50	1.00	1.75	0.25
Tolerance	±0.10	±0.10	+0.30/-0.10	±0.05	±0.10	±0.10	±0.10	±0.05	+0.10/-0.00	+0.25/-0.00	±0.10	±0.02