

VT1 & VT2

MINIATURE SURFACE MOUNT VCTCXO



10 to 40 MHz

+5.0 Vdc or +3.0 Vdc option

Low Phase Noise

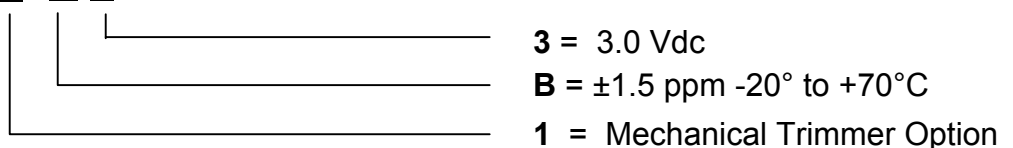
Low Profile 2.0 mm/0.08 inch tall

Low Current 2.0 mA maximum

Mechanical Trimmer option

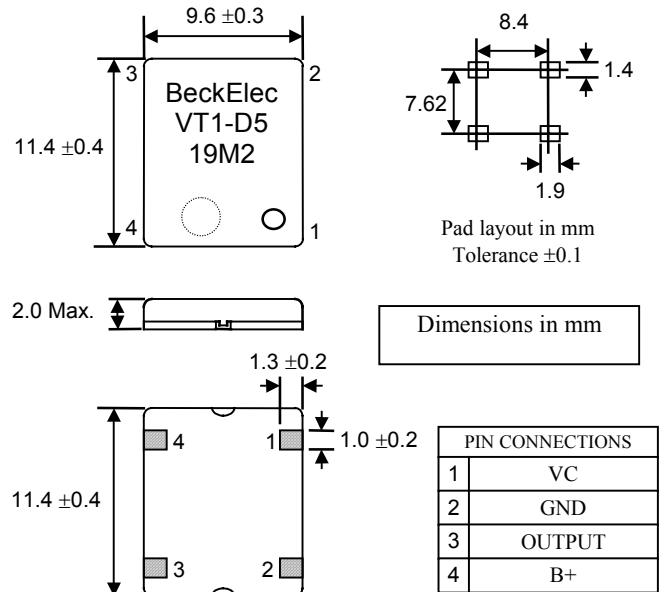
Surface mount

TYPICAL P/N **VT 1- B 3 19M2**



Frequency Range:	10 MHz to 40 MHz*	
Trimmer Options:	1 = VC & Mechanical 2 = VC only	
Stability Options:	B = ±1.5 ppm -20°C to +70°C C = ±2.0 ppm 0°C to +70°C D = ±2.5 ppm -30°C to +75°C E = ±5.0 ppm -40°C to +85°C	
*Not all stability options are available above 20 MHz		
Supply Options:	3 = 3.0 VDC 5 = 5.0 VDC	
Standard Frequency Codes		
10.000 = 10M0	12.000 = 12M0	12.800 = 12M8
13.000 = 13M0	14.400 = 14M4	15.360 = 15M36
16.000 = 16M0	16.800 = 16M8	19.200 = 19M2
19.440 = 19M44	19.680 = 19M68	20.000 = 20M0
Stability vs B+:	<±0.3 ppm for ±5% variation	
Stability vs Load:	<±0.3 ppm for ±10% variation	
Stability vs time:	<1.0 ppm/ first year at 40°C	
Voltage Control:	±1.5 ppm/volt minimum	
Voltage Tune Fo:	B+/2 ±0.5 Vdc at +25°C	
Mechanical trimmer :	±4.0 ppm min.	
Output	Clipped Sinewave	
Load	10kΩ // 10pF 0.7Vp-p min.	
Input current	2.0mA maximum 1.5mA typical	
Phase Noise at 10Mhz	-90 dBc at 10hz -125 dBc at 100hz -145 dBc at 1 KHz -147 dBc at 10 KHz	
Harmonics:	2 nd harmonic > 3 dBc down 3 rd harmonic > 10 dBc down	

Package VT1 & VT2 (without trimmer)



Cleaning: Parts **should not** be immersed in solvents. No clean is the recommended Procedure.

Reflow profile: Warm-up: 25°C to 150°C >30 seconds
 Pre-heat: 150°C to 170°C 60 to 90 seconds
 Reflow: 200°C to 240°C 20 to 40 seconds
 230°C to 240°C peak <10 seconds

Packaging: <1000 in Bulk or Reels of 1000 or 2000