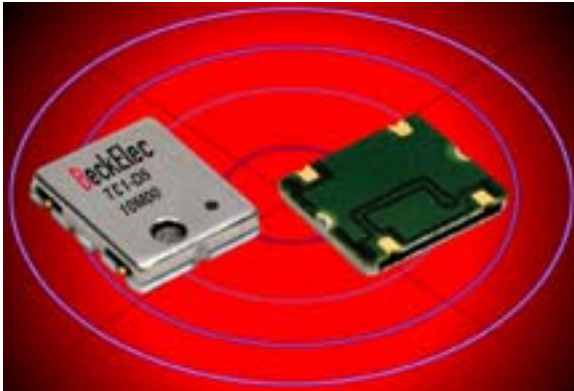


TC1/VT1/VT2 MINIATURE SURFACE MOUNT TCXO & VCTCXOs

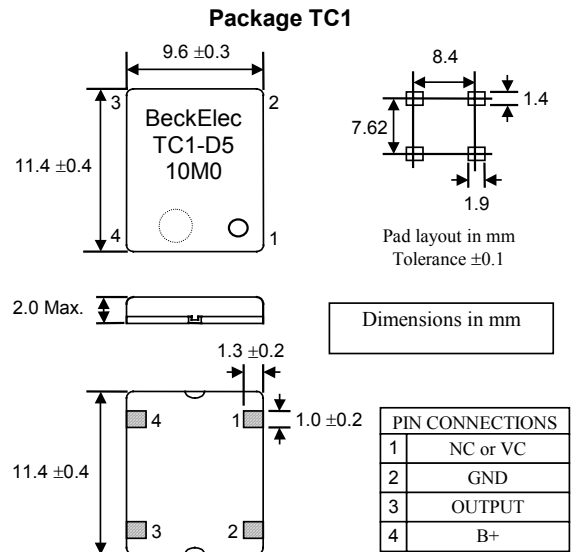


10 to 50 MHz
 +2.8 to +5.3 Vdc operating input voltage
 Low Phase Noise
 Voltage Tune options
 Low Current 2.0 mA maximum
 Mechanical trimmer
 Surface mount
 RoHS Compliant

TYPICAL P/N **TC1- D 5 10M0** = 10.0 MHz

5 = +5.0 Vdc (2.8 to 5.3 Vdc)
D = ±2.5 ppm -30°C to +75°C
TC1 = TCXO with mechanical trim

Frequency Range:	10 MHz to 50 MHz	
Stability Options:	A = ±1.0 ppm	0°C to +50°C
	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
	F = ±2.5 ppm	-40°C to +85°C
	G = ±2.0 ppm	-30°C to +75°C
Supply Options TC1 :	5 = 2.8 to 5.3 VD	
Supply Options VT1 & VT2 :	5 = 5.0 Vdc ±10%	
	3 = 3.0 Vdc ±10%	
Voltage Tune Options:	PAD 1	
	VT1 = Voltage Tune and Mechanical Trim ±1.5 PPM/Vdc Minimum voltage tuning.	
	VT2 = Voltage Tune Only ±2.0 PPM/Vdc Minimum voltage tuning.	
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	
Mechanical trimmer:	±4.0 ppm min.	
Output	Clipped Sinewave	
Load	10kΩ // 10pF 0.7Vp-p min.	
Input current	1.5mA Max <25 MHz	
Phase Noise at 10MHz	-90 dBc at 10hz -128 dBc at 100hz -147 dBc at 1 KHz -148 dBc at 10 KHz	
Harmonics:	2 nd harmonic > 3 dBc down 3 rd harmonic > 10 dBc down 4 th harmonic >18 dBc down	
Packaging:	Reels of 500, 1000 & 2000 or Bulk packaging	



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