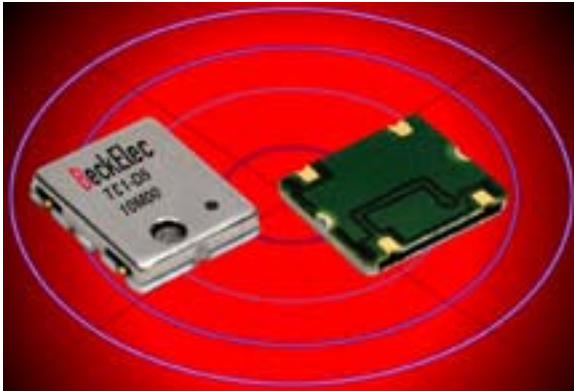


TC1/VT1/VT2 MINIATURE SURFACE MOUNT TCXO & VCTCXOs



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.

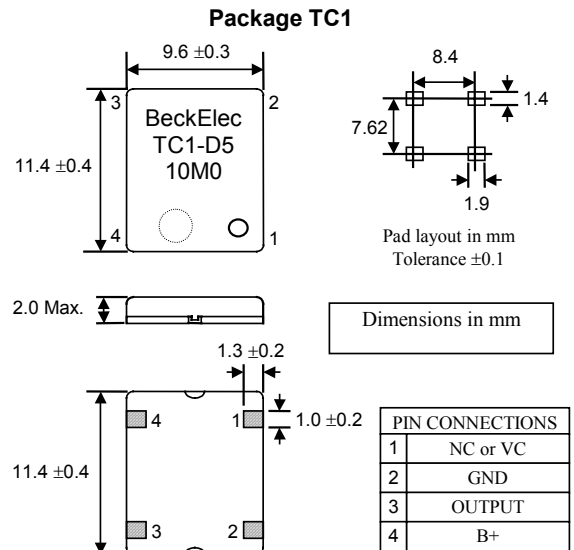
Stability vs B+: ≤±0.3 ppm for ±5% variation
 Stability vs Load: ≤±0.3 ppm for ±10% variation
 Stability vs time: <1.0 ppm/ first year at 40°C

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: 2nd harmonic > 3 dBc down
 3rd harmonic > 10 dBc down
 4th 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