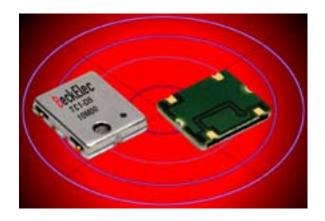
TC1/VT1/VT2 MINIATURE SURFACE MOUNT TCXO & VCTCXOs



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 <u>TC1</u>- <u>D</u> <u>5</u> 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: $A = \pm 1.0 \text{ ppm}$ 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+: $<\pm0.3$ ppm for $\pm5\%$ variation Stability vs Load: $<\pm0.3$ ppm for $\pm10\%$ variation Stability vs time: <1.0 ppm/ first year at 40° C

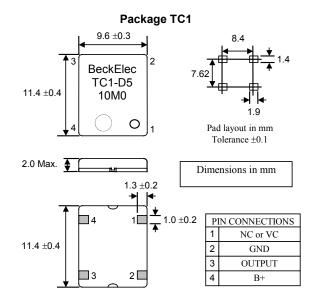
-90 dBc at 10hz -128 dBc at 100hz -147 dBc at 1 KHz -148 dBc at 10 KHz

Harmonics: 2^{nd} harmonic > 3 dBc down $3^{rd}_{...}$ harmonic > 10 dBc down

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