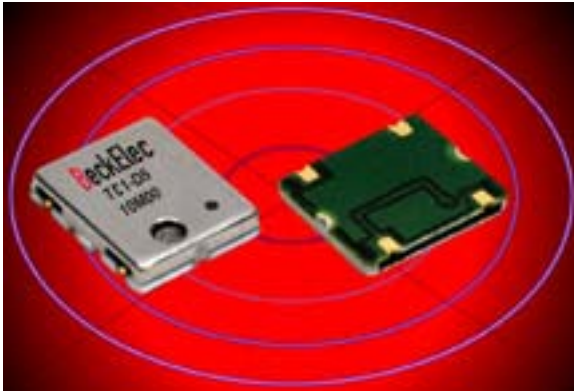


TC1

MINIATURE SURFACE MOUNT TCXO



10 to 40 MHz

+2.8 to +5.3 Vdc operating input voltage

Low Phase Noise

Low profile 2.0 mm/0.08 inch tall

Low Current 2.0 mA maximum

Mechanical trimmer

Surface mount

TYPICAL P/N TC1- D 5 10 MHz

5 = +5.0 Vdc (2.8 to 5.3 Vdc)

D = ±2.5 ppm -30°C to +75°C

Frequency Range: 10 MHz to 40 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

Supply Options: **5** = 2.8 to 5.3 VD

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
		40.000 = 40M0

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.

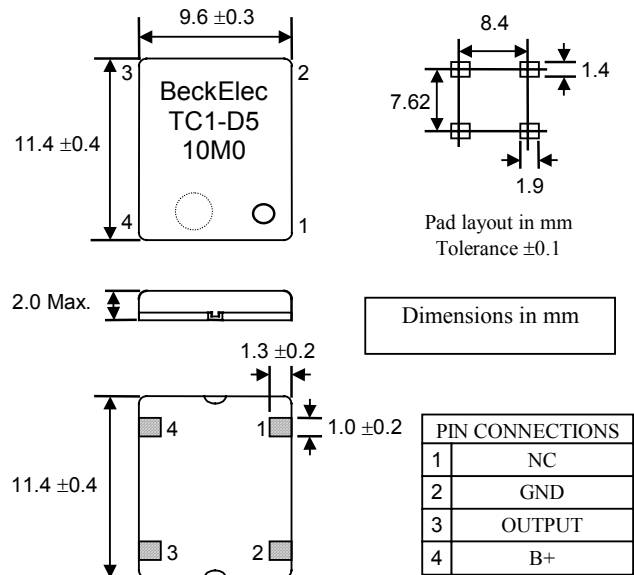
Output: Clipped Sinewave
 Load: 10kΩ // 10pF 0.7Vp-p min.
 Input current: 2.0mA maximum
 1.5mA typical

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: <1000 in bulk
 Reels of 1000 or 2000

Package TC1



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