

Type CXO-06 smd clock oscillator smd ceramic package (1.0 ~ 80.0)MHz

- # ceramic package with metal lid
- # (2.0 x 1.6)mm footprint
- # +3.3Vd.c., +2.5Vd.c., 1.8Vd.c. supply

Electrical specification

Case style	CXO-06, (2.0 x 1.6)mm, height 0.7mm
Frequency range	(1.0 ~ 80.0)MHz
Stability *	from ± 30 ppm, temperature range dependent
Supply voltage V_{cc}	+3.3Vd.c. +2.5Vd.c. +1.8Vd.c
Supply current max.	5mA typical at 20MHz 8mA typical at 50MHz frequency dependent
Operating temperature	(-10 +60) $^{\circ}$ C ~ (-40 +85) $^{\circ}$ C
Storage temperature	(-40 +85) $^{\circ}$ C
Output	TTL, CMOS 15pF
Symmetry	(45 ~ 55)%, (40 ~ 60)%
Tri-state	fixed frequency or tri-state

* inclusive of calibration tolerance at +25 $^{\circ}$ C, temperature tolerance, supply voltage variation, load variation, first year ageing, shock and vibration.

Ordering information

Example type CXO-06 smd clock oscillator, 25.00MHz, +3.3Vd.c., fixed frequency, ± 50 ppm(-20 +70) $^{\circ}$ C, output CMOS 15pF, symmetry (40 ~ 60)%

TFC PART NUMBER CXO-06X 25.0M E F G C K

'CXO-06X' type number: CXO-06X = smd clock oscillator type CXO-06

'25.0M' frequency: 25.0M = 25.00MHz, frequency range from (1.0 ~ 80.0)MHz

'E' supply voltage: E = +3.3Vd.c.

'F' tri state: F = fixed frequency, T = tri-state function on pin #1

'G' frequency stability: G = ± 50 ppm

'C' temperature range: C = (-20 +70) $^{\circ}$ C

'K' output logic and symmetry: K = CMOS 15pF(40 ~ 60)%

Supply voltage E: +3.3Vd.c., J: +2.5Vd.c., K: +1.8Vd.c.

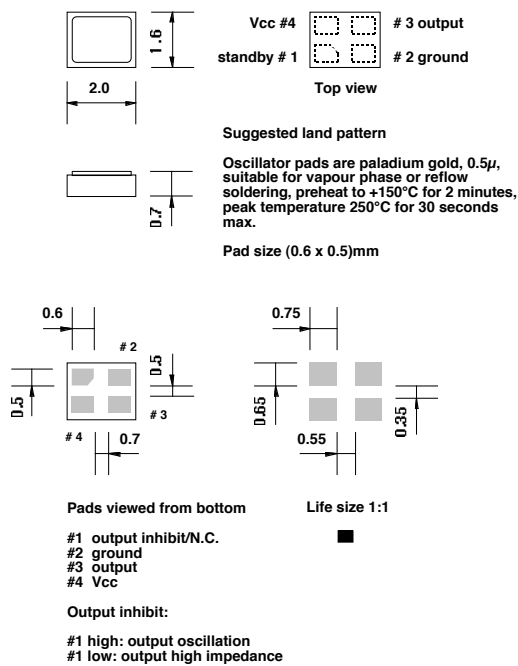
Frequency stability E: ± 30 ppm, G: ± 50 ppm, H: ± 100 ppm

Temperature range B: (0 +50) $^{\circ}$ C, I: (-10 +60) $^{\circ}$ C, C: (-20 +70) $^{\circ}$ C, L: (-40 +85) $^{\circ}$ C

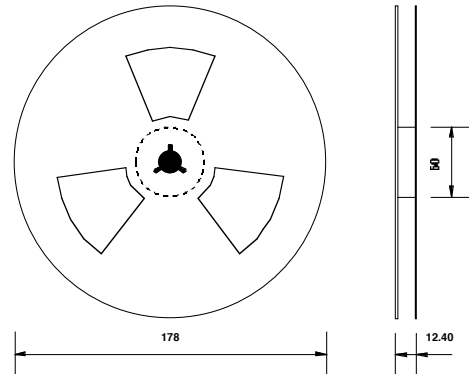
Output A: TTL(45 ~ 55)%, J: CMOS 15pF(45 ~ 55)%, B: TTL(40 ~ 60)%, K: CMOS 15pF(40 ~ 60)%

Type CXO-06 smd clock oscillator

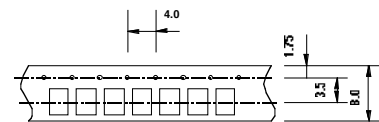
CXO-06 dimensions(mm) shown 5x full size



Tape and reel dimensions(mm)



Centre hole diameter 13.0mm, slot width 2mm spaced at 120°
Reel quantity 3000 pieces, leader tape 400mm minimum
Trailer tape: 10 empty compartments minimum



Tape transport hole diameter 1.5mm
Compartment size 2.25mm x 1.85mm, depth 0.95mm
Component spacing 4.0mm

Environmental test conditions

Mechanical shock	1500g, half sine wave, 0.5ms, 3 directions	MIL STD 883D 2002.3, condition A
Thermal shock	(-55 ~ +125)°C, 20 cycles	MIL STD 883D 1011.9, condition B
Vibration	(10 ~ 2000)Hz, 1.25mm, sine wave, 20g, each of three planes, duration 4 hours	MIL STD 883D 2005.2, condition B
Solderability	+245°C \pm 5°C, 5 seconds \pm 0.5 seconds	MIL STD 883D 2003.7
Fine leak	Mass spectrometer leak rate less than 2 ¹⁰⁻⁸ atm.cc/sec. helium	MIL STD 883D 1014.9, condition A
Gross leak	Leak test in de-ionised water, vacuum 70cm/Hg	
Humidity	85% relative humidity, +85°C, 500 hours	JIS-C 7022 B-5, condition C