

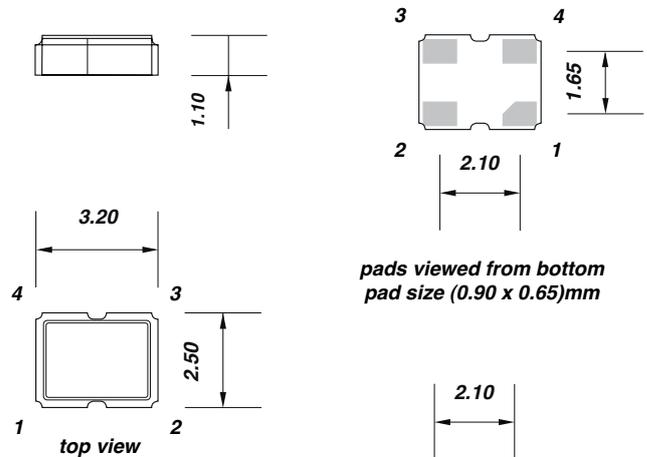
PROGRAMMABLE FAST DELIVERY SMD OSCILLATOR UP TO 200MHZ

A high quality, miniature ceramic smd, crystal clock oscillator manufactured over the wide frequency range of 1MHz to 200MHz. Low supply current, tight symmetry, supply voltage from 1.8Vd.c. to 3.3Vd.c.

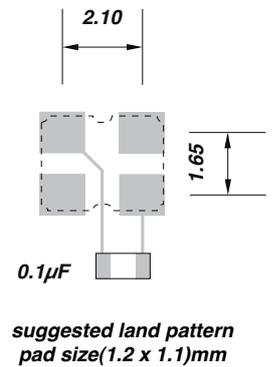
Output frequency is pre-programmed from standard units providing custom frequencies with minimum delivery times.

Suitable for new designs in miniature equipment, supplied on tape and reel, 1000, 2000, 3000 or 5000 pieces per reel.

Dimensions(mm)



- pad connections**
- #1 tri-state
 - #2 ground
 - #3 output
 - #4 V_{dd}



Frequency stability -vs- temperature:

TEMP. RANGE	COMBINED TOLERANCE			
	±15ppm	±20ppm	±25ppm	±50ppm
(-20 +70)°C	±15ppm	±20ppm	±25ppm	±50ppm
(-40 +85)°C	-	±20ppm	±25ppm	±50ppm
(-40 +105)°C	-	-	±25ppm	±50ppm

Tolerance inclusive of calibration tolerance at +25°C, temperature tolerance, load variation and supply voltage variation, first year ageing, vibration and shock

Electrical specification:

	3.3Vd.c.		2.5Vd.c.		1.8Vd.c.		
	min.	max.	min.	max.	min.	max.	
supply voltage variation	±5%		±5%		±5%		Vd.c.
frequency range	1 ~ 200		1 ~ 200		1 ~ 125		MHz
supply current @15pF load	35		30		20		mA
output level; o/p high	90% V_{DD}	-	90% V_{DD}	-	90% V_{DD}	-	V
output level; o/p low	-	10% V_{DD}	-	10% V_{DD}	-	10% V_{DD}	V
transition time; rise and fall time	-	2	-	2	-	3	nano sec.
duty cycle	45	55	45	55	45	55	%
start up time	-	8	-	8	-	8	milli sec.
tri-state; active o/p	0.7 V_{DD}	-	0.7 V_{DD}	-	0.7 V_{DD}	-	V
tri-state; high impedance o/p	-	0.3 V_{DD}	-	0.3 V_{DD}	-	0.3 V_{DD}	V
standby current; PD mode	-	400	-	400	-	400	µA
standby current; OE mode	-	20	-	20	-	20	mA
output loading	15pF		15pF		15		pF
rms phase jitter - (12kHz ~ 20MHz)	-	2	-	2	-	2	pico sec.
ageing @25°C first year	-	±3	-	±3	-	±3	ppm
storage temperature range	(-50 +125)°C						°C



Ordering information

EXAMPLE	<i>type PXU clock oscillator, 40.00MHz, ± 25ppm(-20 +70)$^{\circ}$C, +3.3Vd.c., output CMOS</i>
TFC PART NUMBER	PXU 40.0M E D C
PXU	<i>type: PXU = clock oscillator type PXU, smd</i>
40.0M	<i>frequency: 40.0M = frequency in MHz, frequency range (1 ~ 200)MHz</i>
E	<i>supply voltage: E = +3.3Vd.c.,</i>
D	<i>frequency stability: D = ± 25ppm</i>
C	<i>temperature range: C = (-20 +70)$^{\circ}$C</i>
OPTIONS	
supply voltage	<i>K = 1.8Vd.c., J = 2.5Vd.c., E: +3.3Vd.c.</i>
frequency stability	<i>P: ± 15ppm, C: ± 20ppm, : D = ± 25ppm, G = ± 50ppm</i>
temperature range	<i>C: (-20 +70)$^{\circ}$C, L:(-40 +85)$^{\circ}$C, J(-40 +105)$^{\circ}$C</i>