

TC62-3

SMD TEMPERATURE COMPENSATED CRYSTAL OSCILLATOR (TCXO)

The TC62-3 series provides a range of miniature temperature compensated crystal oscillators operating at +3.0V supply with a clipped sinewave output. The exceptionally small size of just 0.024cc makes these TCXO's an ideal choice for compact volume applications where cost and performance are critical factors.

ADVANTAGES

- † Miniature size
- † Low power
- † Optional Voltage Adjust.
- † +3.0V supply

APPLICATIONS

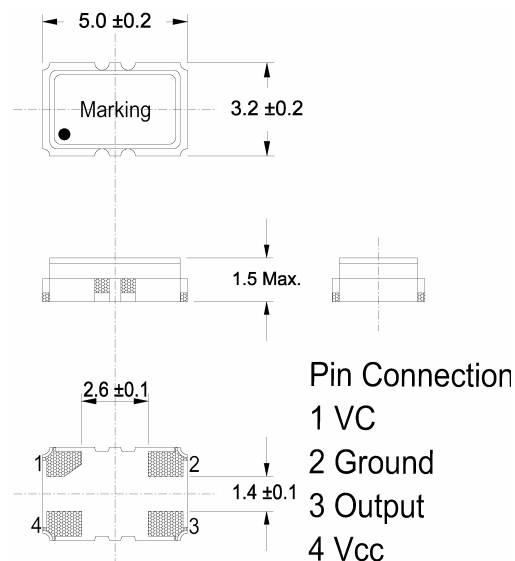
- † Telecommunications
- † Modems
- † Mobile Communications.
- † Cellular Phones



ELECTRICAL PERFORMANCE (Ta=25°C, CL = 10k Ω //10pF and Vcc = +3.0V)

PARAMETER	MINIMUM	MAXIMUM	UNITS
NOMINAL FREQUENCY (Fo) (See note 2)	12	19.8	MHz
CALIBRATION TOLERANCE	-1.0	+1.0	ppm
FREQUENCY STABILITY			ppm
Over Temperature Range (See Note 2)	-2.5	+2.5	
Ageing (per year at +25°C)	-1.0	+1.0	
Over Supply Voltage Variation (Vcc = +3.0V $\pm$ 5.0%)	-0.3	+0.3	
OPERATING TEMPERATURE RANGE	-20	+70	°C
STORAGE TEMPERATURE RANGE	-40	+85	°C
SUPPLY VOLTAGE (Vcc)	+4.75	+5.25	V
SUPPLY CURRENT		2.0	mA
OUTPUT WAVEFORM Clipped sinewave			
Peak to Peak amplitude	0.8		V
VOLTAGE CONTROL +1.5V $\pm$ 1.0V (Add suffix V to order code)	$\pm$ 5	$\pm$ 15	ppm

Parameter	Standard Observed
Mechanical Shock	MIL-STD-202 Method 213, Condition C
Vibration	MIL-STD-202 Method 201, 204, and 214
Hermeticity	MIL-STD-202, Method 112
Solderability	IPC/EIA-STD-002A



- NOTES**
- 1) To order, state part number, options and nominal frequency e.g. TC62-3V 19.200MHz
 - 2) Standard frequencies (MHz) 12.6 / 12.8 / 13.0 / 14.4 / 14.85 / 16.8 / 19.2 / 19.44 / 19.68 / 19.8
 - 3) Other specifications available upon request.

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