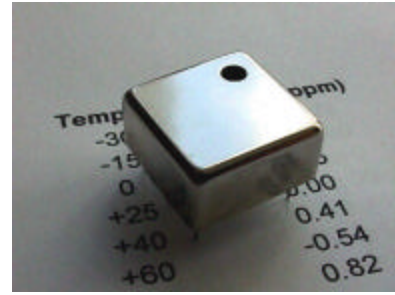


The TC23-3 series provides a range of high frequency, temperature compensated crystal oscillators, packaged in a robust, high reliability enclosure. The outputs are matched directly into 50Ω and the series provides first class performance and accuracy with the option of voltage control or mechanical adjustment.



### ADVANTAGES

- Through Hole
- 50Ω Termination
- Hermetic Package
- 400MHz Operating Frequency

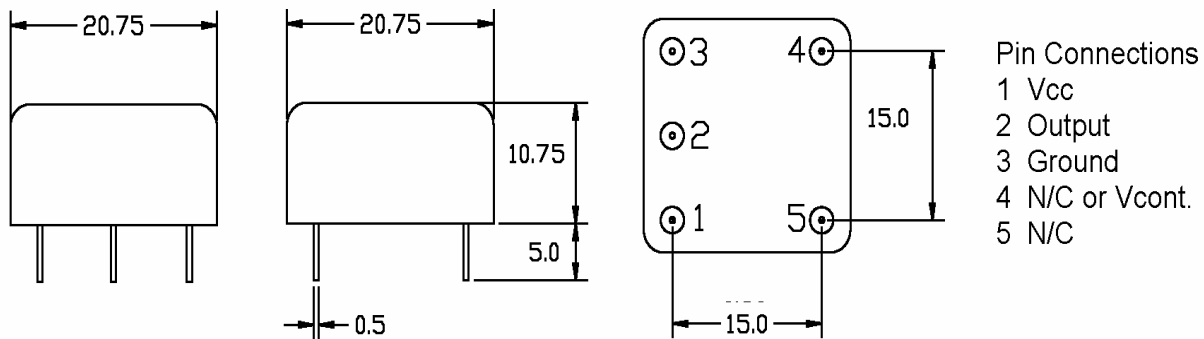
### APPLICATIONS

- Telecommunications
- Base Stations
- Test Systems
- Instrumentation

### ELECTRICAL PERFORMANCE (Ta=25°C, RL = 50W and Vcc = +5.0V)

PARAMETER	MINIMUM	MAXIMUM	UNITS
NOMINAL FREQUENCY (Fo)	20	400	MHz
CALIBRATION TOLERANCE	-1.0	+1.0	ppm
FREQUENCY STABILITY			ppm
Over Temperature Range (See Note 2)	-1.0	+1.0	
Ageing (per year at +25°C)	-1.0	+1.0	
Over Supply Voltage Variation (Vcc = +5.0V ±5.0%)	-0.3	+0.3	
OPERATING TEMPERATURE RANGE (See Note 2)	0	+50	°C
STORAGE TEMPERATURE RANGE	-40	+85	°C
SUPPLY VOLTAGE (Vcc) (See Note 2)	+2.85	+3.15	V
SUPPLY CURRENT (Dependant upon nominal frequency)	10	30	mA
OUTPUT WAVEFORM A.C. COUPLED SINEWAVE			
Amplitude	0	+5	dBm
Harmonic Distortion		-15	dBc
Sub-harmonic Distortion		-30	dBc
Spurious		-65	dBc
FREQUENCY ADJUSTMENT (Internal trimmer) (Order Code TC23-5T)	±2.0		ppm
VOLTAGE CONTROL +2.5V ±2.0V (Order Code TC23-5V)	±5		ppm

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



- NOTES**
- 1) To order, state part number, options and nominal frequency e.g. TC23-3T 100.000MHz
  - 2) Other temperature ranges, stabilities and supply voltages are readily available upon request.
  - 3) Other specifications available upon request.