K1602SE Series
14 DIP, 5.0 Volt, Sinewave, TCVCXO

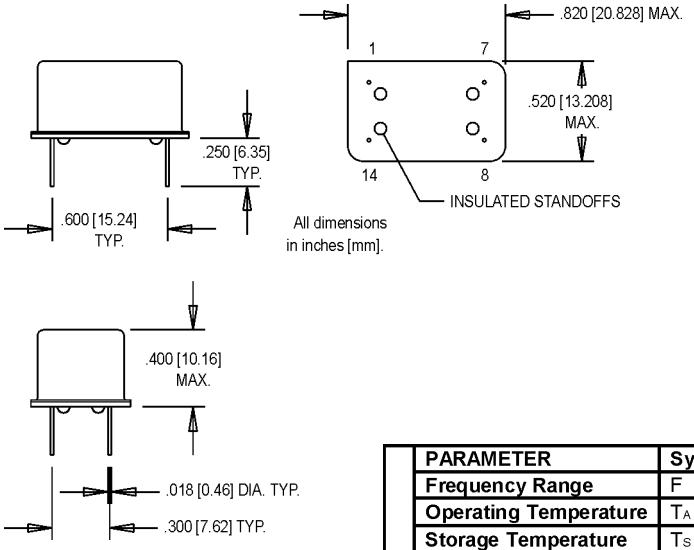


- Former Champion Technologies, Inc. Product
- Phase-Locked Loops, SONET, Reference Signal, Signal Tracking, ATM

Ordering Information

K1602SE -R 00.0000 MHz

- Product Series
- RoHS Compliance
  - Blank: non-RoHS compliant part
  - -R: RoHS compliant part
- Frequency (customer specified)



Pin Connections

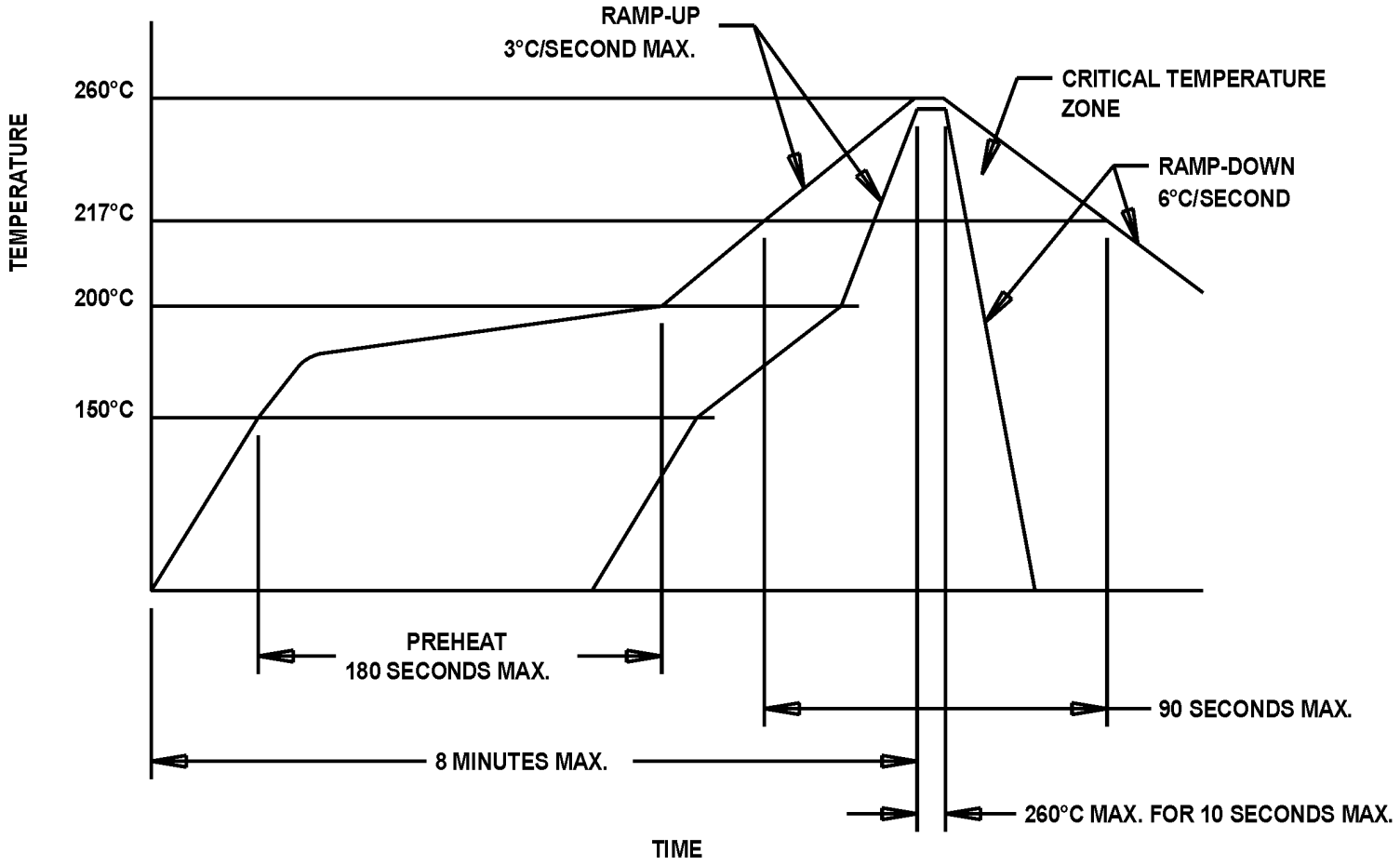
PIN	FUNCTION
1	EFC, Control Voltage
7	Ground/Case Gnd
8	Output
14	+Vdd

	PARAMETER	Symbol	Min.	Typ.	Max.	Units	Condition/Notes
edElectrical Specifications	Frequency Range	F	90		115	MHz	
	Operating Temperature	T_A	-40		+85	°C	
	Storage Temperature	T_S	-40		+85	°C	
	Frequency Stability	ÄF/F			±7.0	ppm	See Note 1
	Aging (10 year)		-2		+2	ppm	
	Control Voltage	Vc	0	2.0	4	V	Positive monotonic slope
	Tuning Range		±4		±15	ppm	Vc = 0.5V to 3.5V
	Modulation Bandwidth	fm				kHz	±3dB
	Input Impedance	Zin	50k			Ω	@ 10kHz
	Input Voltage	Vdd	4.75	5.0	5.25	V	
	Input Current	Idd			20	mA	
	Output Type						Sinewave
	Load			50 Ω			See Note 2
	Output Level		1.0			V p-p	Into 50 Ω
	Output Power	Po		+2	+4	dBm	50 Ω
	Start up Time				10	ms	
	Phase Noise (Typical)	**10 Hz**	**100 Hz**	**1 kHz**	**10 kHz**	**100 kHz**	**Offset from carrier**
		-65	-95	-120	-140	-150	dBc/Hz
Environmental	Mechanical Shock	Per MIL-STD-202, Method 213, Condition C (100 g's, 6 mS duration, ½ sinewave)					
	Vibration	Per MIL-STD-202, Method 201 & 204 (10 g's from 10-2000 Hz)					
	Hermeticity	Per MIL-STD-202, Method 112, (1x10-8 atm. cc/s of Helium)					
	Thermal Cycle	Per MIL-STD-883, Method 1010, Condition B (-55°C to +125°C, 15 min. dwell, 10 cycles)					
	Solderability	Per EIAJ-STD-002					
	Soldering Conditions	+240°C max. for 10 secs.					

1. Inclusive of calibration, temperature, voltage, load and aging.
2. See load circuit diagram #8

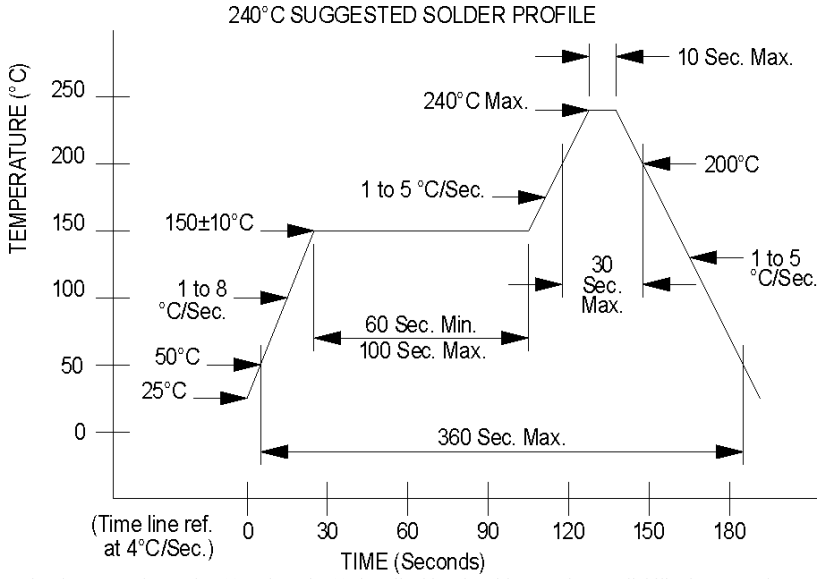
MtronPTI reserves the right to make changes to the product(s) and service(s) described herein without notice. No liability is assumed as a result of their use or application.

MtronPTI Lead Free Solder Profile



MtronPTI Non-RoHS Profile

240°C
All the remaining surface mount, both crystal and oscillator.



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