



SPECIFICATION FOR 1.8 V HCMOS COMPATIBLE SMT OSCILLATOR MtronPTI P/N M2180S027

Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Frequency of Operation	Fo		32.768000		kHz	
Frequency Stability	$\Delta F/F$	-50		+50	ppm	
Operating Temperature	TA	-40		+85	°C	
Aging		-5		+5	ppm	1 st year
Operating Voltage	Vdd	1.71	1.80	1.89	V	
Operating Current	IDD			1	mA	
Output Type		HCMOS Compatible				
Output Load				15	pF	
Symmetry (duty cycle)	T _{DC}	45		55	%	Ref to 1/2 VDD
Logic "1" Level	Vон	90% V _{DD}			V	HCMOS load
Logic "0" Level	Vol			10% V _{DD}	V	HCMOS load
Rise/Fall Time	T _R /T _F			200	nS	From 10% to 90% V _{DD}
Tristate Control	Τsυ	80% Vdd or NC			V	Pin1: Enables output.
				20% Vdd	V	Pin1: Output disabled to high-Z

Environmental & Mechanical Requirements:

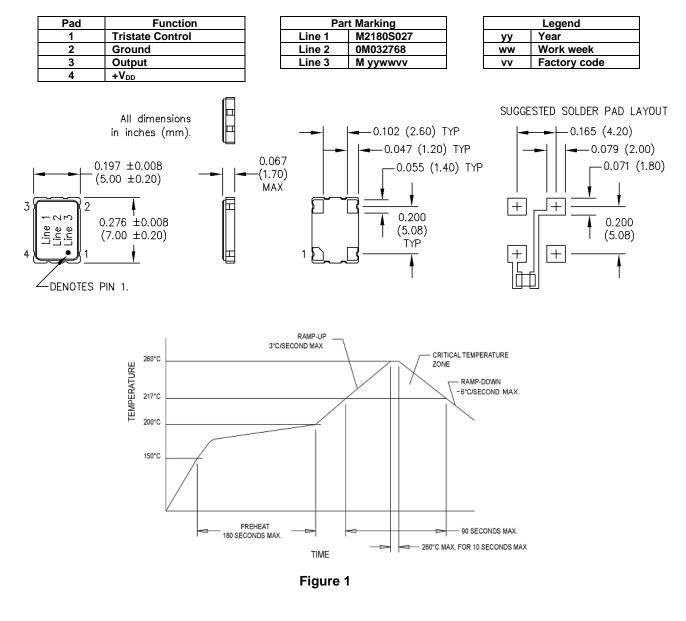
Mechanical Shock	Per MIL-STD-202, Method 213, Condition C (100 g's, 6 ms duration, 1/2 sine wave)			
Vibration	Per MIL-STD-202, Method 201 & 204 (10 g's from 10-2000 Hz)			
Thermal Cycle	Per MIL-STD-883, Method 1010, B (-55°C to 125°C, 15 min. dwell, 10 cycles)			
Storage Temperature	-55°C to +125°C			
Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 ⁻⁸ atm cc/s of Helium)			
Solderability	Per EIAJ-STD-002			
Max. Soldering Conditions	See solder profile, Figure 1			
Package Type	4-pad 5.0 X 7.0 X 1.9 mm leadless ceramic. RoHS compliant.			





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Dimensions, Pin Out, and Marking Information:



DATA SHEET REVISION TABLE:

Date	Rev.	Author	Details of Revision
02/7/13	0	MM	Original release.