



SPECIFICATION FOR 1.8V SMT OSCILLATOR MtronPTI P/N M2180S028

Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Frequency of Operation	Fo		26.000000		MHz	
Frequency Tolerance		-25		+25	ppm	@ +25°C
			Frequency S	Stability		
Frequency Stability	$\Delta F/F$	-25		+25	ppm	Deviation over operating temperature range.
Aging		-3.0		+3.0	ppm	1 st year
		-2.0		+2.0		Thereafter (per year)
			RF Out	out		
Output Type		HCMOS/TTL Compatible				
Output Load				15/2	pF/TTL	
Symmetry (duty cycle)	T _{DC}	40	50	60	%	Ref to 1/2 VDD
Logic "1" Level	Vон	90% Vdd			V	HCMOS load
		1.2				TTL Load
Logic "0" Level	Vol			10% Vdd	V	HCMOS load
				0.4		TTL Load
Rise/Fall Time	T _R /T _F		2	6	nS	10% to 90% VDD HCMOS load
						0.4 V to 1.2 V TTL load
Start-Up Time				10	mS	
	-	Supply Vo	ltage & Pov	ver Consur	mption	
Operating Voltage	V _{DD}	1.62	1.80	1.98	V	
Operating Current	I _{DD}		4	10	mA	

Environmental & Mechanical Requirements:

Operating Temperature	TA	-40		+85	°C	
Storage Temperature	Ts	-55		+125	°C	
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)					
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:

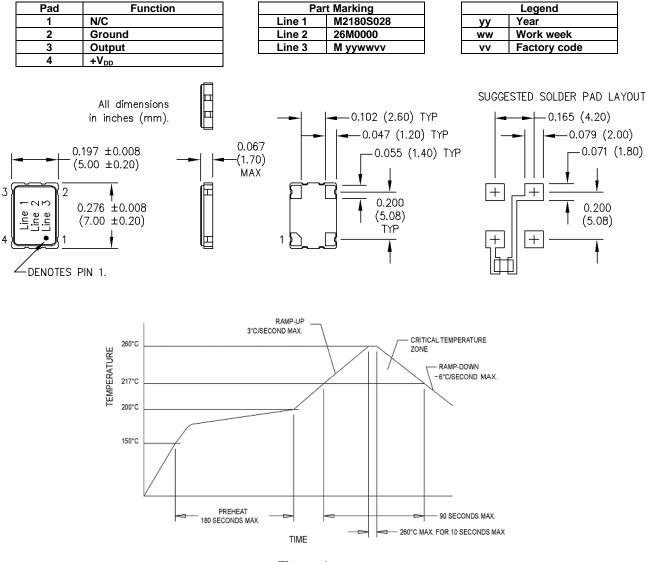


Figure 1

DATA SHEET REVISION TABLE:

Date	Rev.	Author	Details of Revision			
12/02/14	0	MM	Original release.			
12/11/14	А	MM	Removed customer part number line.			

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