

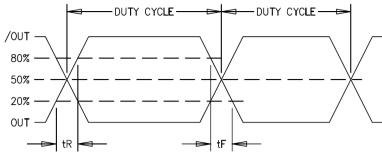




Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Frequency of Operation	Fo		1090.000000		MHz	
			Frequency Sta	bility		
Frequency Stability	ΔF/F	-250		+250	ppm	Includes initial tolerance, deviation over operating temperature, variations to supply voltage, load, vibration, shock and 1 st year aging.
Aging		-5		+5	ppm	1 st year
			RF Outpu	t		
Output Type		L	VPECL Compatib	le		
Output Load		50) Ω to (Vcc-2) VD)C	V	
Symmetry (duty cycle)	T _{DC}	45		55	%	Ref. to 50% of waveform
Logic Level "1" Vcc-1.02			V			
Logic Level "0"				Vcc-1.63	V	
Rise/Fall Time T _R /T _F 0.5		0.5	ns	From 20% to 80% V _{DD}		
Start-up Time	Tsu			10	ms	$T_{amb} = +25^{\circ}C$
		Supply V	oltage & Powe	r Consum	ption	
Operating Voltage	Vcc	3.135	3.3	3.465	V	
Supply Current	Icc			130	mA	
	•		Other Parame	ters	•	
			-105		dBc/Hz	@ 1 kHz Offset
Phase Noise			-112		dBc/Hz	@ 10 kHz Offset
			-117		dBc/Hz	@ 100 kHz Offset
			-129		dBc/Hz	@ 1 MHz Offset
Phase Jitter (RMS)	ΦJ			300	fs	12KHz to 20MHz
Phase Jitter (RMS)	ΦJ			250	fs	50KHz to 80MHz

Output Waveform:



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Environmental & Packaging Requirements:

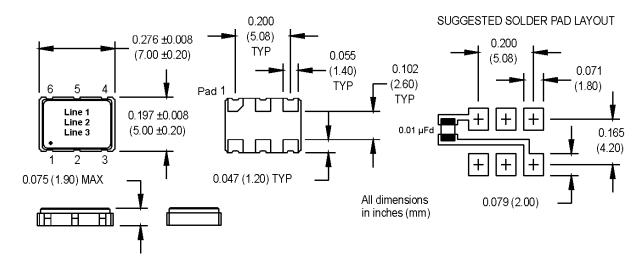
Operating Temperature	TA	-55		+105	°C			
Storage Temperature	Ts	T _s -55 +125 °C						
Mechanical Shock	Per MIL-STD-202, Method 213, Condition C (100 g's, 6 ms duration, 1/2 sinewave)							
Vibration	Per MIL-S	TD-202, M	ethod 201 & 2	204 (10 g's fr	rom 10-2000	Hz)		
Thermal Cycle	Per MIL-STD-883, Method 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)							
Moisture Sensitivity Level (MSL)								
Solderability	Per EIAJ-STD-002							
Max. Soldering Conditions See solder p		e solder profile, Figure 1						
Package Type	6-pad 5.0	X 7.0 X 1.9) mm leadless	ceramic. Ro	HS complian	nt.		

Dimensions, Marking, Pin Out:

Pad	Function			
1	N/C			
2	N/C			
3	Ground			
4	Output			
5	Complementary Output			
6	+V _{cc}			

Part Marking						
Line 1	M2100S128					
Line 2	1090M0000					
Line 3	MPTI yyww					

Legend						
уу	Year					
ww	Work Week					



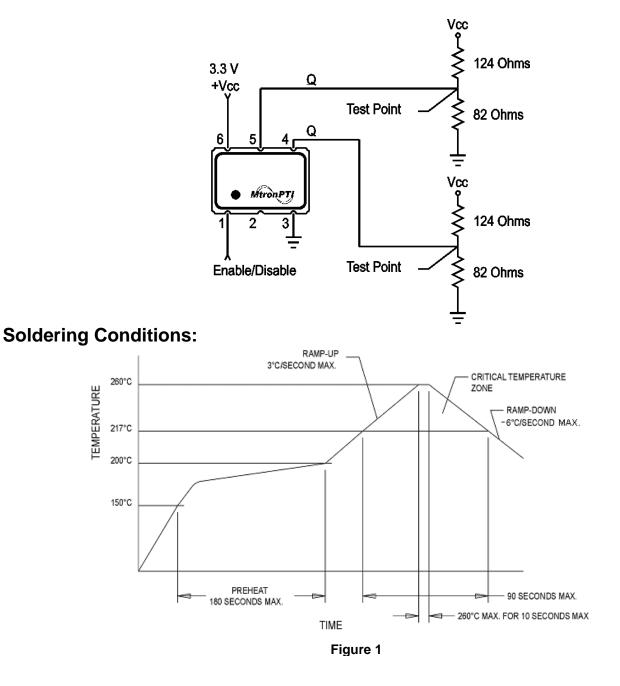
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Typical Test Circuit & Load Circuit Diagrams:



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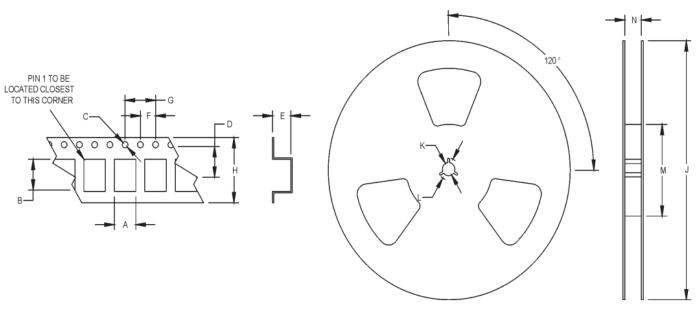






Tape and Reel Specifications:

All units in mm



Tape and Reel Specifications											
A B C D E F G H J K L M											
5.32	7.28	1.5	7.5	2.2	4	8	16	178	13.5	24.8	80

Datasheet Revision Table:

	Date	Rev.	Author	Details of Revision				
0	5/16/18	0	MM	Original release.				