





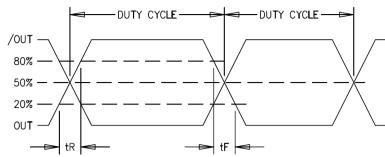
Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Frequency of Operation	Fo		705.800000		MHz	
		I	Frequency St	ability		
Frequency Stability	ΔF/F	-50		+50	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	ut		
Output Type		LV	PECL Compati	ble		
Output Load		50	Ω to (Vcc-2) VI	DC	V	
Symmetry (duty cycle)	T _{DC}	45		55	%	Ref. to 50% of waveform
Logic Level "1"		V _{cc} -1.02			V	
Logic Level "0"				V _{cc} -1.63	V	
Rise/Fall Time	T _R /T _F			0.5	nS	From 20% to 80% V _{DD}
Start-up Time	Tsu			10	mS	$T_{amb} = +25^{\circ}C$
		Supply Vo	Itage & Powe	er Consum	nption	
Operating Voltage	Vcc	3.135	3.3	3.465	V	
Supply Current	Icc			130	mA	
			Other Parame	eters		
Phase Jitter (RMS)	ΦJ		220	300	fsec	12KHz to 20MHz

Enable/Disable Function:

Pad 1	Output Pad #4, #5
High or Open	
0.8 Vcc Min	Output Enabled
0.5 V Max	Output Disabled to high-Z

Output Waveform:



Environmental & Packaging Requirements:

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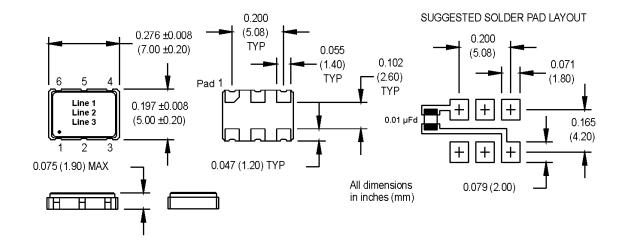
Operating Temperature	T _A	-40		+85	°C				
Storage Temperature	Ts	-55		+125	°C				
Mechanical Shock	Per MIL-STD-202, Method 213, Condition C (100 g's, 6 ms duration, 1/2 sinewave)								
Vibration			ethod 201 & 2						
Thermal Cycle	Per MIL-S	Per MIL-STD-883, Method 1010, B (-55°C to 125°C, 15 min. dwell, 10 cycles)							
Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 ⁻⁸ atm cc/s of Helium)								
Moisture Sensitivity Level (MSL)	MSL 1								
Solderability Per EIAJ-STD-002									
Max. Soldering Conditions	See solder profile, Figure 1								
Package Type	6-pad 5.0 X 7.0 X 1.9 mm leadless ceramic. RoHS compliant.								

Dimensions, Marking, Pin Out:

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

Part Marking					
Line 1	M2100S123				
Line 2	705M8000				
Line 3	MPTI yyww				

	Legend					
уу	Year					
ww	Work Week					



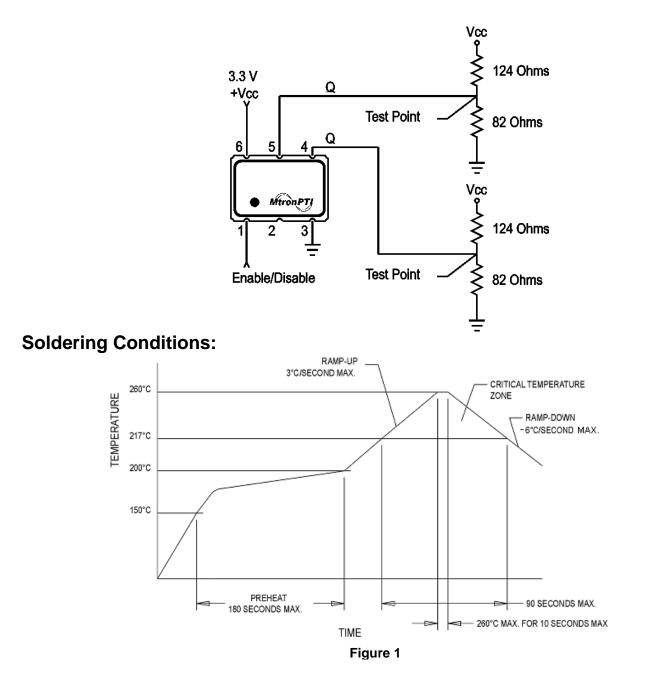
Typical Test Circuit & Load Circuit Diagrams:

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Tape and Reel Specifications:

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All units in mm

Tape and	Tape and Reel Specifications										
Α	В	С	D	Е	F	G	Н	J	K	L	Μ
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				
3/04/15	0	MM	Original release.				