





Electrical Specifications:

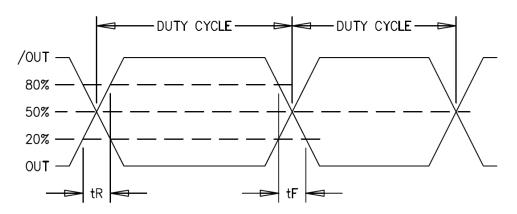
Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Frequency of Operation	Fo		120.000000		MHz	
Frequency Tolerance		-1.0		+1.0	ppm	@ +25°C
		Fr	equency Stabi	lity		
vs. Temperature	ΔF/F			1.0	ppm	(Max-Min)/2
vs. Aging		-3		+3	ppm	1 st year
vs. Aging		-1		+1	ppm	Per year thereafter.
			RF Output			
Output Type		Differe	ential LVDS Comp	oatible		
Output Load			100 Ω Differential	l	V	
Common Mode Output Voltage			1.2		V	
Differential Output Voltage		250	350	450	mV	LVDS Load
Symmetry (duty cycle)	T _{DC}	45		55	%	Referenced to 1.25 V
Output Skew			20		pS	
Rise/Fall Time	T _R /T _F			0.35	nS	From 20% to 80% Vcc
Tristate Enable Logic		80% Vcc or N/C			V	Pad 2. Clock Signal Output
Tristate Disable Logic				0.5	V	Pad 2. Output to High-Z
		C	ther Paramete	rs		
			-100			@ 100 Hz
			-120		1	@ 1 kHz
			-128			@ 10 kHz
Phase Noise			-133		dBc/Hz	@ 100 kHz
			-145			@ 1 MHz
			-152			@ 10 MHz
			-153			@ 20 MHz
Phase Jitter	ФЈ		0.28		pS RMS	Integrated From: 12kHz to 20 MHz
	S	upply Volt	age & Power C	onsumpti	on	
Operating Voltage	Vcc	3.135	3.3	3.465	V	
Operating Current	Icc			100	mA	







Output Waveform:



Environmental Conditions:

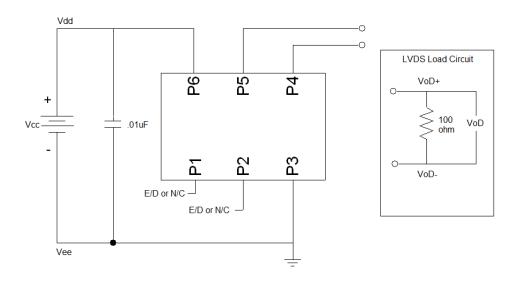
Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Operating Temperature	TA	-40		+85	°C	
Storage Temperature	Ts	-55		+125	°C	
Shock	Per MIL-S	TD-202, M	ethod 213, C	Condition C (1	00 g's, 6 n	ns duration, ½ sinewave)
Vibration	Per MIL-STD-202, Method 201 & 204 (10 g's from 10-2000 Hz)					
Thermal Shock	Per MIL-STD-883, Method 1011, Condition A					
Thermal Cycle	Per MIL-STD-883, Method 1010, Condition B					
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 Figure 1.					
Package Type	6-pad 5.0 X 7.0 X 1.9 mm leadless ceramic. RoHS compliant.					







Typical Test Circuit & Load Circuit Diagrams:



Soldering Conditions:

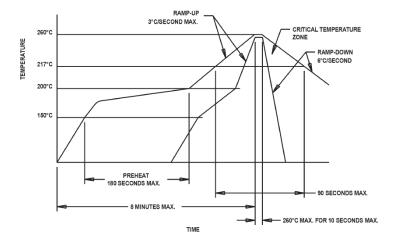


Figure 1





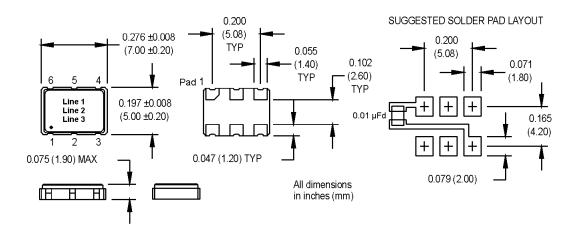


Mechanical, Marking, and Pin Out Information:

Part Marking		
Line 1	M6300S084	
Line 2	120M000	
Line 3	MPTI yyww	

Legend			
уу	Year		
ww	Work week		

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



Datasheet Revision Table:

Date	Rev.	Author	Details of Revision	
06/08/15	0	MM	Original release.	