





Electrical Specifications:

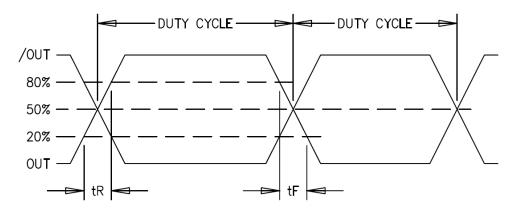
Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Frequency of Operation	Fo		200.000000		MHz	
Frequency Tolerance		-1.0		+1.0	ppm	@ +25°C
		F	requency Stabi	lity		
vs. Temperature	Δ F/F			1.0	ppm	(Max-Min)/2
		-3		+3	ppm	1 st year
vs. Aging		-1		+1	ppm	Per year thereafter.
			RF Output			
Output Type		Differ	ential LVDS Comp	oatible		
Output Load			100 Ω Differentia		V	
Common Mode Output Voltage			1.2		V	
Differential Output Voltage		250	350	450	mV	LVDS Load
Symmetry (duty cycle)	TDC	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% V _{CC}
		Fre	equency Adjustn	nent		
Control Voltage Range		0.3		3.0	V	Pad 1
Tuning Range		±10			ppm	Pad 1
Linearity				5	%	Positive Monotonic
Modulation Bandwidth		10			kHz	- 3 dB
		C	Other Paramete	ers		
			-67			@ 100 Hz
			-100			@ 1 kHz
			-110			@ 10 kHz
Phase Noise			-120		dBc/Hz	@ 100 kHz
Fliase noise			-127		ubc/nz	@ 1 MHz
			-138]	@ 10 MHz
			-142			@ 20 MHz
			-142			@ 40 MHz
Phase Jitter	ФЈ		0.41		pS RMS	Integrated From: 12kHz to 20 MHz
	S	upply Vol	tage & Power C	Consumpti	on	•
Operating Voltage	Vcc	3.135	3.3	3.465	V	
Operating Current	Icc			100	mA	







Output Waveform:



Environmental Conditions:

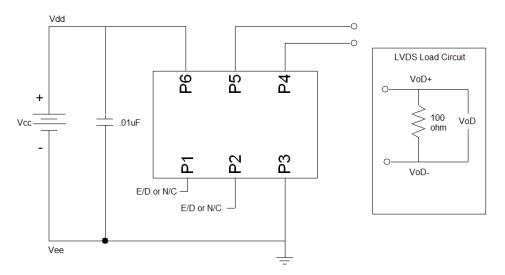
Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Operating Temperature	TA	-40		+85	°C	
Storage Temperature	Ts	-55		+125	°C	
Shock	Per MIL-S	TD-202, M	ethod 213, C	Condition C (1	00 g's, 6 n	ns duration, ½ sinewave)
Vibration	Per MIL-S	TD-202, M	ethod 201 &	204 (10 g's fr	rom 10-200	00 Hz)
Thermal Shock	Per MIL-S	TD-883, M	ethod 1011,	Condition A		
Thermal Cycle	Per MIL-S	TD-883, M	ethod 1010,	Condition B		
Hermeticity	Per MIL-S	TD-202, M	ethod 112 (1	x 10 ⁻⁸ atm co	c/s of heliu	m)
Moisture Sensitivity Level (MSL)	MSL 1					
Solderability	Per EIAJ-	STD-002				
Max. Soldering Conditions	See Figur	e 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:

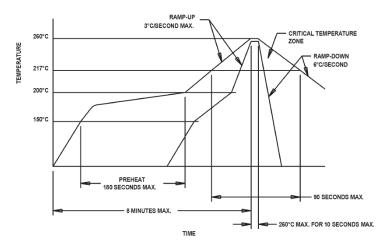


Figure 1





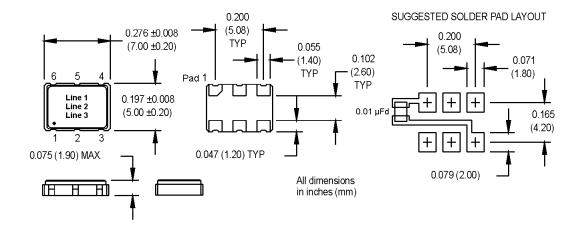


Mechanical, Marking, and Pin Out Information:

Part Marking			
Line 1	M6300S083		
Line 2	200M000		
Line 3	MPTI yyww		
Line 4	####		

Legend		
уу	Year	
ww	Work week	
#	Serial Number	

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



Datasheet Revision Table:

Date	Rev.	Author	Details of Revision	
05/15/15	0	MM	Original release.	
2/28/17	Α	MM	Updated part marking, added special screening.	