





Electrical Specifications:

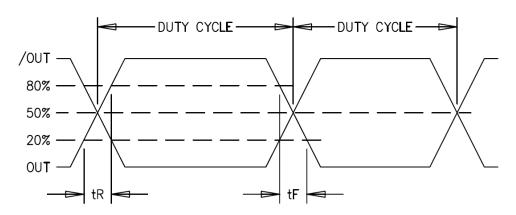
Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Frequency of Operation	Fo		40.000000		MHz	
		Fre	equency Stal	oility		•
vs Temperature	ΔF/F	-25		+25		Includes initial tolerance @ +25°C, deviation over operating temperature.
vo Aging		-5		+5	nnm	1 st year
vs. Aging		-1		+1	ppm	Per year thereafter.
			RF Output			
Output Type		LV	PECL Compat	ible		
Output Load			50 Ω (V _{CC} - 2)			
Symmetry (duty cycle)	T _{DC}	45		55	%	Ref. to V _{CC} - 1.3 V
Output Logic	V _{OH}	V _{CC} - 1.02			V	Logic Level "1"
	V _{OL}			V _{CC} - 1.63	V	Logic Level "0"
Rise/Fall Time	T _R /T _F			0.6	nS	From 20% to 80% of Waveform
Enable/Disable Logic				0.5 or N/C	V	Pin 2: Output Enabled
Enable/Disable Logic		80% Vcc			V	Pin 2: Output to high-Z
		Supply Volta	age & Power	Consumption	n	
Operating Voltage	Vcc	3.135	3.3	3.465	V	
Operating Current	Icc			125	mΑ	
		C	ther Paramet	ers		
Phase Jitter (RMS)	ΦЈ			1.0	ps	12KHz to 20MHz







Output Waveform:



Environmental Conditions:

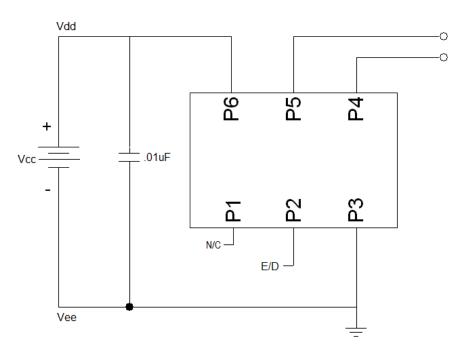
Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Operating Temperature	T _A	-40		+85	°C	
Storage Temperature	Ts	-55		+125	°C	
Shock	Per MIL-STD-202, Method 213, Condition C (100 g's, 6 ms duration, ½ sinewave)					
Vibration	Per MIL-STD-202, Method 201 & 204 (10 g's from 10-2000 Hz)					
Thermal Cycle	Per MIL-STD-883, Method 1010, B (-55°C to 125°C, 15 min. dwell, 10 cycles)			nin. dwell, 10 cycles)		
Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 ⁻⁸ atm cc/s of Helium)			m)		
Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 ⁻⁸ atm cc/s of helium)		m)			
Moisture Sensitivity Level (MSL)	MSL 1					
Solderability	Per EIAJ-S	STD-002				
Max. Soldering Conditions	See Figure	e 1.				
Package Type	9.0 X 14.0 X 4.7 mm 4 J-lead ceramic. RoHS compliant.					

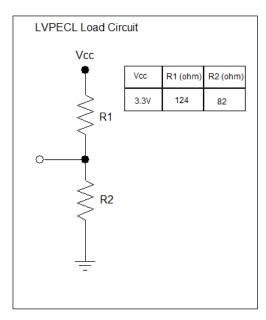






Typical Test Circuit & Load Circuit Diagrams:





Soldering Conditions:

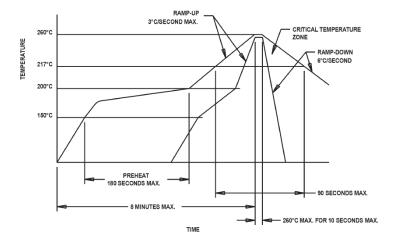


Figure 1





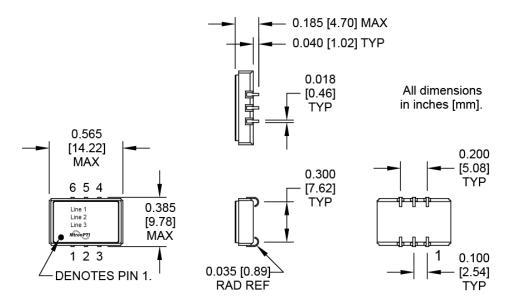


Mechanical, Marking, and Pin Out Information:

Part Marking		
Line 1	M2200S014	
Line 2	40M0000	
Line 3	yyww	

Legend			
уу	Year		
ww	Work week		

Pin	Function	
1	N/C	
2	Enable/Disable	
3	Ground	
4	Output	
5	Complementary Output	
6	+V _{CC}	



SUGGESTED SOLDER PAD LAYOUT 0.200 [5.08] 0.050 [1.27] 0.118 [3.00] 0.346 [8.80]

Datasheet Revision Table:

Date	Rev.	Author	Details of Revision
03/16/17	0	MM	Original release.
11/09/17	Α	MM	Updated stability specification.
03/02/21	В	MM	Updated marking