





Electrical Specifications:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Frequency of Operation	Fo		200.000000		MHz	
	•	Frequ	iency Stabilit	У	•	
vs. Temperature	ΔF/F	-20		+20	ppm	(Max-Min)/2
·		-3		+3	ppm	1 st year
vs. Aging		-1		+1	ppm	Per year thereafter.
		F	RF Output			
Output Type		L\	/PECL Compati	ble		
Output Load		50 Ω to (V _{CC} – 2)		V		
Logic "1" Level Output	Voh	V _{cc} -1.02			V	
Logic "0" Level Output	V _{OL}			V _{cc} – 1.63	V	
Symmetry (Duty Cycle)	T _{DC}	45		55	%	Ref. at 50% of waveform
Rise/Fall Time	T _R /T _F			0.35	nS	From 20% to 80% V _{CC}
Tristate Enable Logic (Pad 1)		80% V _{DD} or N/C			V	Pad 4 & 5: Output Enabled
Tristate Disable Logic (Pad 1)				0.35	V	Pad 4 & 5: Output to high Impedance
	Sup	ply Voltage	& Power Co	nsumption	•	
Operating Voltage	Vcc	3.135	3.3	3.465	V	
Operating Current	Icc			130	mA	

Special Requirements:

Parameter	Specification			
Parameter Internal Visual	Parts shall comply with MIL-STD-883 Method 201 Die attach media shall be visible around at least 5 continuous on two full nonadjacent sides of the electric continuous sid	7 50 percent of the perimeter unless it is		
	Reject less than 50% of perimeter Figure 2017-3	Minimum Accept two full non-adjacent sides Figure 2017-4		



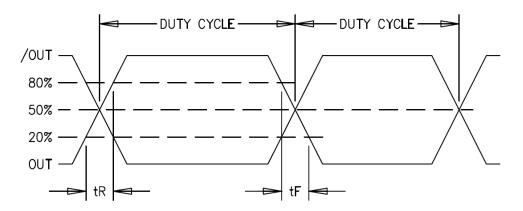




Environmental Conditions:

Parameter	Symbol	Min.	Тур.	Max.	Units	Conditions
Operating Temperature	T _A	-40		+85	°C	
Storage Temperature	Ts	-55		+125	°C	
Shock						s duration, ½ sinewave)
Vibration	Per MIL-S	TD-202, M	ethod 201 & 20	04 (10 g's froi	m 10-200	0 Hz)
Thermal Shock	Per MIL-S	TD-883, M	ethod 1011, Co	ondition A		
Thermal Cycle	Per MIL-STD-883, Method 1010, Condition B					
Hermeticity	Per MIL-S	TD-202, M	ethod 112 (1 x	10 ⁻⁸ atm cc/s	of heliun	n)
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.					

Output Waveform:

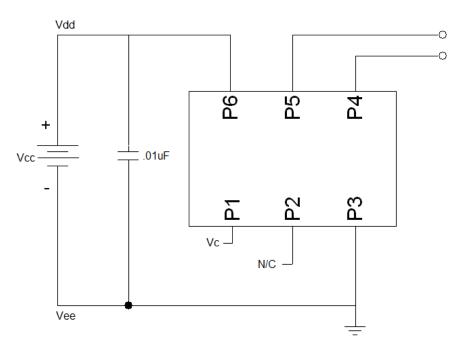


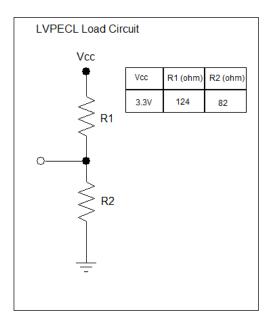






Typical Test Circuit & Load Circuit Diagrams:





Soldering Conditions:

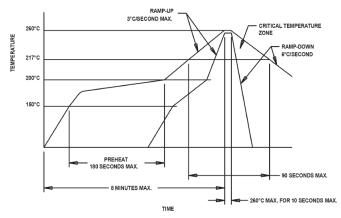


Figure 1





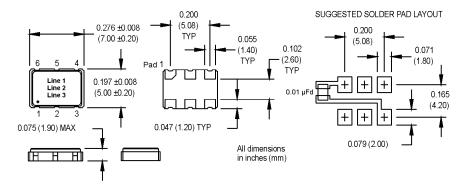


Mechanical, Marking, and Pin Out Information:

Part Marking		
Line 1	M2100S132	
Line 2	200.000M	
Line 3	yyww	

Legend		
уу	Year	
ww	Work week	

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



Datasheet Revision Table:

Date	Rev.	Author	Details of Revision
07-14-20	Α	MM	Original release.