MTI
MTI-MILLIREN TECHNOLOGIES, INC.

263 Series
ICD# 010261-0579

Product Specification

AS9100 / ISO9001 Certified

Parameter		Minimum	Typical	Maximum	Units	Condition	Note
Frequency			10.000000		MHz	10.000000MHz	
Initial Tolerance					ppb	Not applicable	1
Operating Temperature		-40		85	°C		
Thermal Stability				4.0E-10			
Aging	per day			5.0E-10		After 30 days of continuous operation	
	per year			1.0E-07			
Output Type			Sine			Into 50Ω	
		5.0	7.0	9.0	dBm		
Harmonics				-30	dBc		
Sub-Harmonics					dBc		1
Spurious				-80	dBc		
Phase Noise	1 Hz			-90	dBc/Hz	Static condition	
	10 Hz			-120	dBc/Hz		
	100 Hz			-140	dBc/Hz		
	1 kHz			-155	dBc/Hz		
	10 kHz			-160	dBc/Hz		
	100 kHz			-160	dBc/Hz		
Short-Term Stability	1 s			2.0E-11			
	10 s			2.0E-11		Not applicable	
Supply Voltage Sensitivity				5.0E-11		±5 % of Supply Voltage	
Load Sensitivity				5.0E-11		±5 % of Output Load	
Acceleration Sensitivity				1.0E-10		per G, per Axis	2
Warm-up	Time			3	min	At -40° C	
	Frequency			5.0E-8			
	Reference Time			30	min		
Retrace	Frequency			5.0E-9		At +25° C	
	Time Off			24	hr		
	Time On			120	min		
Power	Warm-up			12.0	W		
	Continuous			2.5	W	At +25° C	
Supply Voltage		11.4	12.0	12.6	V		
Reference Voltage	Output Level				V	Not applicable	
	Source Resisance			100	Ω		
Electrical Tuning	Pullability	1.0E-06		1.8E-06		Tuning Via I2C DAC (See tuning via digital interface application note)	
	Tuning Voltage	0.0		0.0	V		
	Linearity			20	%		
	Slope		Positive				
	Input Resistance				kΩ		
	Input Bandwidth		1.0		kHz		
Mechanical Tuning							1

Notes:

1. Not applicable.

2. Recommended maximum random vibration profile (PSD)

10Hz 0.05g^2/Hz
100Hz 0.05g^2/Hz
2000Hz 0.000153g^2/Hz