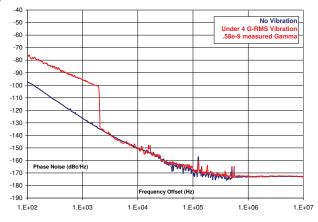


101654.101400 MHz Oscillator

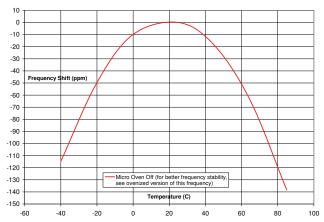
Specifications

Parameter	Symbol	Min	Typical	Max	Unit	Notes
Center Frequency	F ₀	-0.03	400	0.03	MHz	V _{TUNE} = 1.0 V, 20 °C
Absolute Pull Range	APR	30	n/a	n/a	ppm	V _{TUNE} = 0.5 V to 5.0 V, -40 °C to 85 °C
Tuning K		8	16	32	KHz/V	Average incremental sensitivity
Tuning $K_R = K_{max}/K_{min}$		n/a	3:01	4:01	unitless	
Temperature Stability		n/a	150	180	ppm _{P-P}	$V_{TUNE} = 1.0 \text{ V}, -40 ^{\circ}\text{C} \text{ to } 85 ^{\circ}\text{C}$
Aging, 20 years		n/a	20	30	ppm	Absolute change from initial freq
Output Power		8	10	12	dBm	50 Ohm load, -40 °C to 85 °C
Harmonic Spurious		n/a	-30	-20	dBc	50 Ohm load, -40°C to 85°C
Non-harmonic Spurious		n/a	-80	n/a	dBc	50 Ohm load, -40°C to 85°C
SSB Phase Noise at 1 KHz			-126		dBc/Hz	
SSB Phase Noise at 10 KHz			-150		dBc/Hz	
SSB Phase Noise Floor			-173		dBc/Hz	
Vibration Sensitivity		n/a	1	2	ppb/G	per axis
Output Frequency Multiplier		n/a	1	n/a	unitless	
Oven warm-up power		n/a	n/a	n/a	W	from -40°C
Oven warm-up time		n/a	n/a	n/a	sec	from -40°C
V _{SUPPLY}		5	12	15	Volts	Range of Supply Voltages
I _{SUPPLY}		n/a	30	n/a	mA	50 Ohm load, -40 °C to 85 °C, w/o oven $V_S = 12V$

Typical Phase Noise Performance

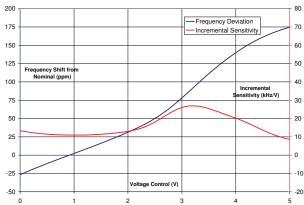


Micro-Oven Performance

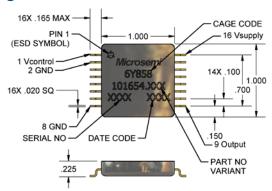


101654.101400 MHz Oscillator

Electrical Tuning

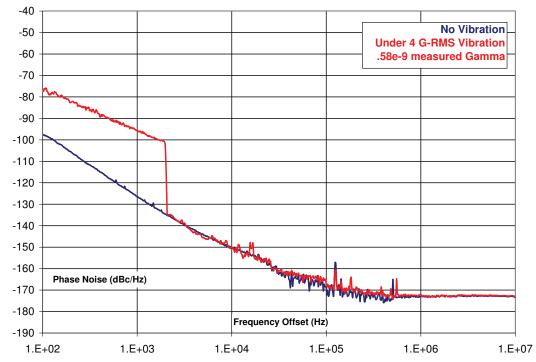


Package Outline



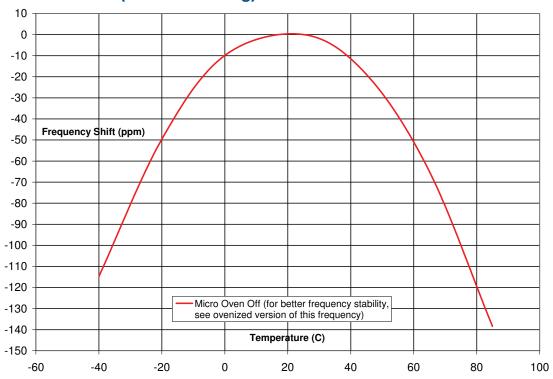
1.50x1.25x.40 inch SMA connectorized package available

Typical Phase Noise Performance

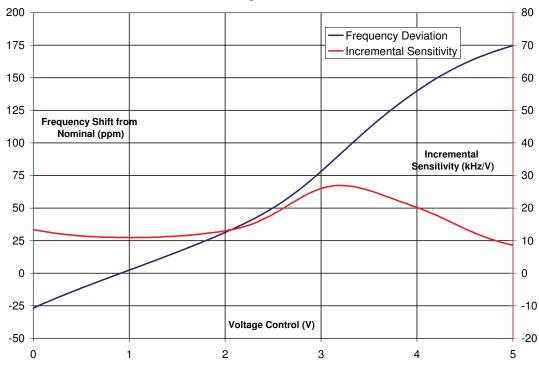




Micro-Oven Performance (Patent Pending)



Frequency Shift and Incremental Sensitivity

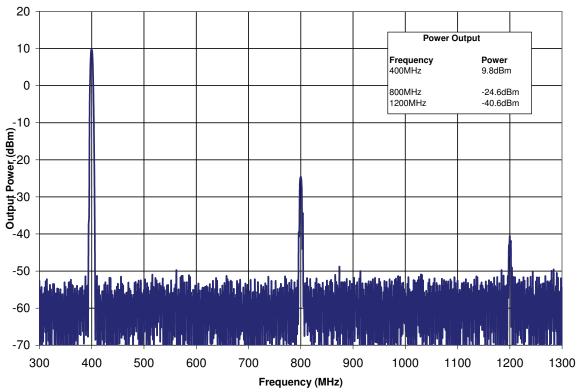




101654.101

400 MHz Oscillator

Spectrum Output





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