

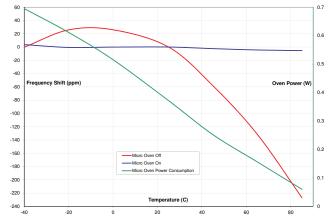
Specifications

Parameter	Symbol	Min	Typical	Max	Unit	Notes
Center Frequency	F ₀	-0.021	1200	0.021	MHz	V _{TUNE} = 2.50 V, 20 °C
Absolute Pull Range	APR	30	n/a	n/a	ppm	$V_{TUNE} = 0.5 V$ to 5.0 V, $-40 \degree$ C to 85 \degree C
Tuning K		18	24	30	KHz/V	Average incremental sensitivity
Tuning $K_R = K_{max} / K_{min}$		n/a	1.5:1	2:1	unitless	
Temperature Stability			8	15	ppm _{P-P}	V _{TUNE} = 2.50 V, -40 °C to 85 °C
Aging, 20 years			20	30	ppm	Absolute change from initial freq
Output Power		8	10	12	dBm	50 Ohm load, -40 °C to 85 °C
Harmonic Spurious			-35	-30	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			-118		dBc/Hz	
SSB Phase Noise at 10 KHz			-146		dBc/Hz	
SSB Phase Noise Floor			-173		dBc/Hz	
Vibration Sensitivity		n/a	0.5	1	ppb/G	per axis
Output Frequency Multiplier		n/a	2	n/a	unitless	
Oven warm-up power		n/a	2	2.5	W	from -40 °C
Oven warm-up time		n/a	6	12	sec	from -40 °C
Oven power stable		n/a	0.7	0.8		-40°C
		n/a	0.35	0.45	W	+20°C
V _{SUPPLY}		5	12	15	Volts	
I _{SUPPLY}		n/a	35	n/a	mA	50 Ohm load, -40 °C to 85 °C, w/o oven

Typical Phase Noise Performance



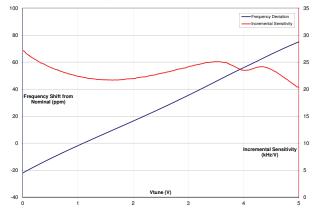
Micro-Oven Performance



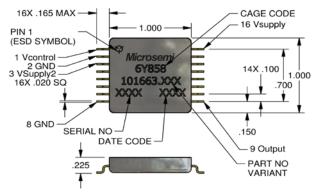


101663.100 1200 MHz Oscillator

Electrical Tuning

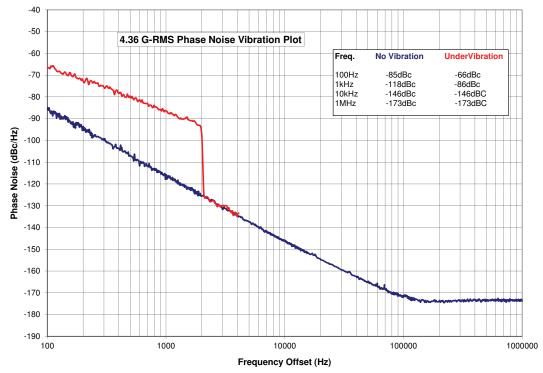


Package Outline



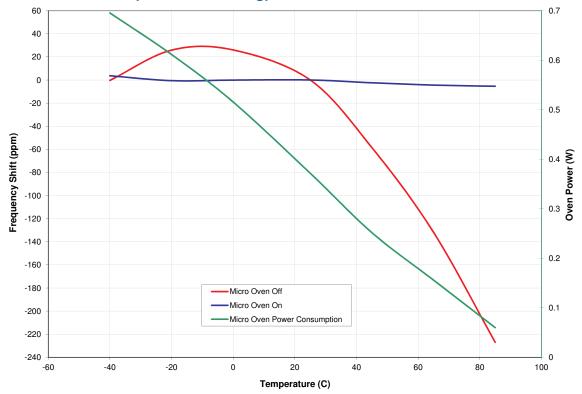
1.50x1.25x.40 inch SMA connectorized package available

Typical Phase Noise Performance

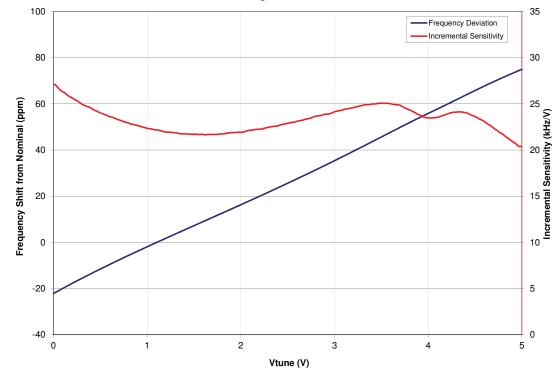




Micro-Oven Performance (Patent Pending)



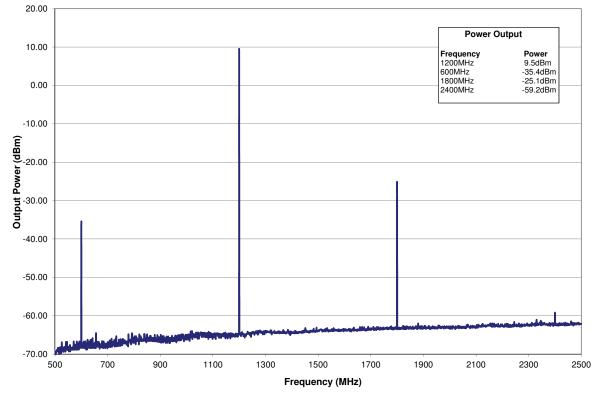
Frequency Shift and Incremental Sensitivity





101663.100 1200 MHz Oscillator

Spectrum Output





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