

Nominal Frequency:

19.44 MHz

Frequency stabilities

Parameter	Min	Typ	Max.	Units	Operating temp range
vs. operating temperature range (Referenced to +25°C)	-0.28		+0.28	ppm	-20°C to +70°C
Parameter	Min	Typ	Max.	Units	Condition
vs. initial tolerance (df/F0)	-1.5		+1.5	ppm	at time of shipment, nominal EFC $V_S \pm 5\%$ load $\pm 10\%$ *Stratum 3 per GR-1244-CORE: < ± 4.6 ppm for all causes and 15 years aging, holdover: < ± 0.37 ppm over 24 hours
vs. supply voltage change	-0.1		+0.1	ppm	
vs. load change	-0.1		+0.1	ppm	
vs. aging / 15 years	-2.5		+2.5	ppm	
vs. overall tolerance	-4.6		+4.6	ppm	

Supply voltage (Vs)

Parameter	Min	Typ	Max.	Units	Condition
Supply voltage	3.135	3.3	3.465	VDC	
Current consumption			20	mA	

RF output

Parameter	Min	Typ	Max.	Units	Condition
Signal	HCMOS				
Load	13.5	15	16.5	pF	
Rise and Fall time			5	ns	10% to 90%
Duty Cycle	40		60	%	@ (Voh-Vol)/2

Frequency Tuning (EFC)

Parameter	Min	Typ	Max.	Units	Condition
Tuning Range	± 5.0	± 12.0	± 20.0	PPM	
Control Voltage Range	0.3	1.65	3.0	VDC	
Tuning Slope	Positive				

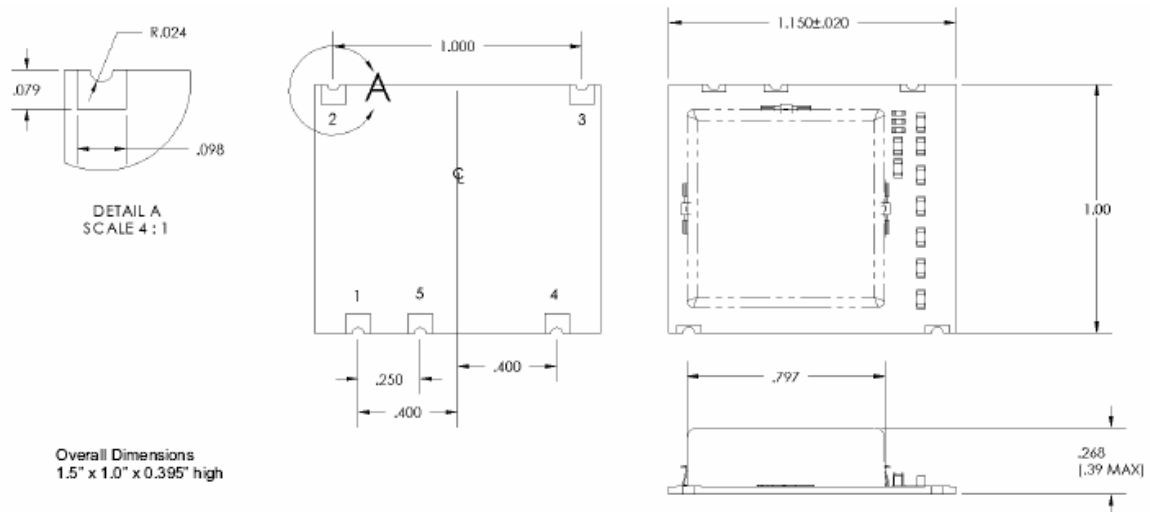
Additional parameters

Parameter	Min	Typ	Max.	Units	Condition
Phase Noise		-110		dBc/Hz	100 Hz
		-125		dBc/Hz	1 kHz
		-140		dBc/Hz	10 kHz
Allan Variance		1×10^{-9}			Tau= 1 sec
Weight			9	g	
Processing & Packing	Handling & processing note				
RoHS compliance level	This unit complies with "RoHS 5.0" standards				

Notes:

- 1 Unless otherwise stated all values are valid after warm-up time and refer to typical conditions for supply voltage, frequency control voltage, load, temperature (25°C)

Enclosure



Dimensions: inches

Pin Connections

- 1 RF Output
- 2 Supply Voltage Input (Vs)
- 3 Ground
- 4 Electrical Frequency Control Input (EFC)
- 5 Ground

Recommended Reflow Profile

standard-reflow-profile for SMD-oscillators

