

**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 <sub>S</sub> ± 5% load ± 10%
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	
*Stratum 3 per GR-1244-CORE: < ±4.6ppm for all causes and 15 years aging, holdover: <±0.37ppm over 24 hours					

### 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				

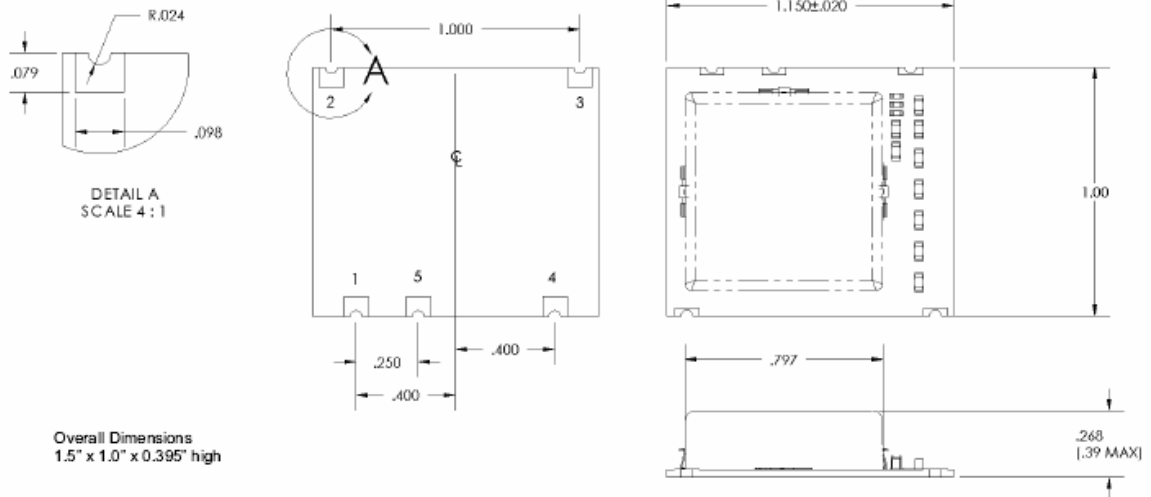
### Additional parameters

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		1x 10 <sup>-9</sup>			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**



**Pin Connections**

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

**Recommended Reflow Profile**

