Nominal Frequency 10.000 MHz

Initial Accuracy (Time of Shipment) : ± 0.10 ppm @ +2.5 VDC EFC

Frequency stabilities

Parameter	Crystal	Frequency stability	Condition
vs. operating temperature range	SC	<± 10 ppb	-20 to +85°C (ref +25°C)
vs. aging per day		< ± 1 ppb/day	after 72 hours on power
vs. aging per year		< ± 50 ppb/yr	
vs. short-term (ADEV)		<1e-11	Tau = 1 sec.
vs. supply voltage		< ± 2.0 ppb	± 5.0 % change

Frequency tuning

Parameter	Value	Condition
Electrical frequency control (EFC): Voltage range Pulling slope Linearity	± 0.5 ppm to ± 1.0 ppm 0 to 5 VDC Positive 20%	

RF output

Parameter	Value	Condition
Signal	+3.0 to +7.0 dBm	50 Ohms
Harmonics	<-25 dBc	50 Ohms
Sub-Harmonics	NA	
Spurious	<-80 dBc	no vibration, minimal EM field and ripple

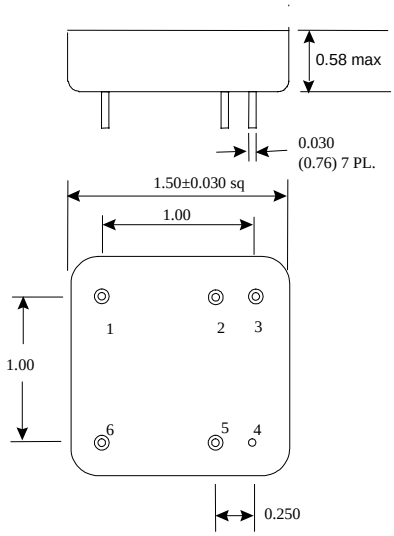
Supply Voltage

Parameter	Value	Condition
Supply voltage Power consumption steady state Power consumption during warm up	+ 5.0 V ± 5% < 2.0 W < 5.0 W	 Typical @ 25°C Typical

Corning Frequency Control Inc. • 100 Watts Street • Mount Holly Springs, Pennsylvania 17065, USA • Tel 1-717-486-3411 • Fax 1-717-486-5920 • www.corningfrequency.com
Corning Frequency Control GmbH & Co. KG • Landstrasse D-74924 Neckarbischofsheim, Germany • Tel +49-7268-801-0 • Fax +49-07268-801-281 • www.corningfrequency.de

Enclosure

Pin	Function
1	Supply Voltage
2	No Connect[1]
3	No Connect[2]
4	Case Ground
5	RF Output
6	EFC



Additional Parameters

Parameter		Level	Condition
Phase Noise (Static)		<-102 dBc/Hz <-125 dBc/Hz <-145 dBc/Hz <-153 dBc/Hz <-158 dBc/Hz <-158 dBc/Hz	1Hz 10Hz 100Hz 1KHz 10KHz 100kHz
Warm-up time		< 5 min	To within ± 0.1 ppm of 1 hour frequency @ 25°C

Notes

1 Pin 2 is for Corning internal use: clk.

2 Pin 3 is for Corning internal use: data.

3 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)

Corning Frequency Control Inc. • 100 Watts Street • Mount Holly Springs, Pennsylvania 17065, USA • Tel 1-717-486-3411 • Fax 1-717-486-5920 • www.corningfrequency.com
Corning Frequency Control GmbH & Co. KG • Landstrasse D-74924 Neckarbischofsheim, Germany • Tel +49-7268-801-0 • Fax +49-07268-801-281 • www.corningfrequency.de