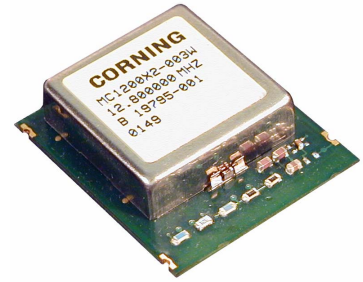


Typical Applications

SONET/SDH
Synthesizers
Optimized for Semtech SONET /
SDH Synchronization Sets

Features

Stratum 3 Compliant
Tight Stability
Low Aging



Previous Corning Model Numbers

MC1200

Frequency range

10 MHz – 30 MHz

Standard frequencies

12.8 MHz

Frequency stabilities¹ [Stratum 3 TCXO]

Parameter	Min	Typ	Max.	Units	Operating temp range	Ordering Code ⁵
	-0.8		+0.8	ppm	-40 ... +85°C	F807
vs. operating temperature range (Referenced to +25°C)	-0.8		+0.8	ppm	-20 ... +70°C	D807
	-0.28		+0.28	ppm	-20 ... +70°C	D287
	-0.28		+0.28	ppm	0 ... +50°C	B287
Parameter	Min	Typ	Max.	Units	Condition	
Initial tolerance	- 1.5		+1.5	ppm	at time of shipment, nominal EFC	
vs. supply voltage change	- 0.1		+0.1	ppm	V _S ± 5%	
vs. load change	- 0.1		+0.1	ppm	Load ± 10%	
vs aging /15 Years	- 2.5		+2.5	ppm	*Stratum 3 per GR-1244-CORE:	
overall tolerance	-4.6		-4.6	ppm	<±4.6 ppm for all causes and 15 years aging, Holdover: <±0.37 ppm over 24 hours (Code: D287 & B287)	

Supply voltage (Vs)

Parameter	Min	Typ	Max.	Units	Condition	Ordering Code ⁵
Supply voltage [Standard]	3.135	3.3	3.465	VDC		SV033
Supply voltage [Option]	4.75	5	5.25	VDC		SV050
Current consumption			15	mA	steady state @ +25°C & 3.3VDC	
			15	mA	steady state @ +25°C & 5.0VDC	

RF output

Parameter	Min	Typ	Max.	Units	Condition	Ordering Code ⁵
Signal [Standard]	HCMOS					RFH
Load	13.5	15	16.5	pF		
Rise and Fall time			5	ns	10% - 90%	
Duty cycle	40		50	%	@ (Voh-Vol)/2	

Additional parameters

Parameter	Min	Typ	Max.	Units	Condition	
Phase Noise ³		-115		dBc/Hz	100 Hz	Stratum 3 TCXO @ 12.8 MHz
		-130		dBc/Hz	1 kHz	
		-140		dBc/Hz	10 kHz	
Allan Variance		1x 10 ⁻⁹			Tau= 1 sec	
Weight			9	g		
Processing & Packing	Handling & processing note					

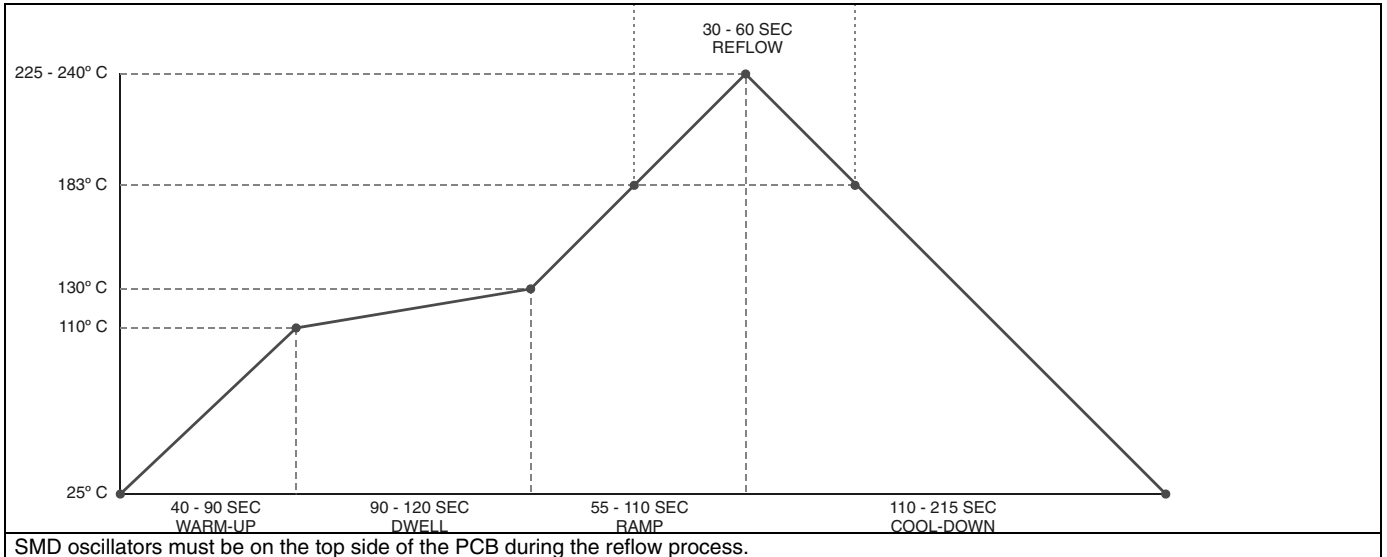
Enclosures

Type A			
Package Codes:			
Code A1	Height "H" 6.8	Pin Length "L" NA	
Dimensions: inch			
Pin Connections			
1 RF-Output 2 Vs (supply voltage) 3 GND 4 N.A. 5 GND Outline Drawing:			
Marking			
C2560A1-xxxx Frequency * C AYYWW			

Absolute Maximum Ratings

Parameter	Min	Typ	Max.	Units	Condition
Supply voltage (Vs)			6.0	V	
Control Voltage	0		6.0	V	
Maximum output load @ CMOS			40	pF	
Operable temperature range	-40		+85	°C	
Storage temperature range	-55		+125	°C	

Recommended Reflow Profile



How to Order this Product:

Step 1	Use this worksheet to forward the following information to your factory representative:				
	Model	Stability Code	Supply Voltage Code	RF Output Code	Package Code
	C2560				
<i>Example:</i>	<i>C2560</i>	<i>D206</i>	<i>SV033</i>	<i>RFC</i>	<i>A1</i>

Step 2	The factory representative will then respond with a Corning Model Number in the following Configuration:			
	Model	Package Code	Dash	Dash Number
	C2560	[Customer Specified Package Code]	-	[Factory Generated 4 digit number]

Typical P/N = C2560A1-0001

Standard Shipping Method

Production tolerance complying DIN IEC 286-3

Enclosure Type	Tape width W [mm]	Quantity per meter	Quantity per reel	Dimension P

Notes:

- 1 Contact factory for improved stabilities or additional product options. Not all options and codes are available at all frequencies.
- 2 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)
- 3 Phase noise degrades with increasing output frequency.
- 4 Subject to technical modification.
- 5 Contact factory for availability.