



1202 / 1203 Series

		I203 Package
roduct Feature	es: Applications:	
CMOS/TTL Compatil Low Noise Compatible with Leac RoHS Compliant	Sonet /SDH	
Frequency	1 MHz to 51.840 MHz	5.1 Max.
Output Level HC-MOS TTL	'0' = 0.1 Vcc Max., '1' = 0.9 Vcc Min. '0' = 0.4 VDC Max., '1' = 2.4 VDC Min.	
Duty Cycle	50% ±5%	0.36
Rise / Fall Time	10 nS Max.*	1202 Package
Output Load HC-MOS TTL	Fo < 50 MHz = 10 TTL, Fo > 50 MHz = 5 LSTTL 15 pF	
Frequency Stability	See Frequency Stability Table	
Supply Voltage	See Input Voltage Table, tolerance ±10 %	
Current	50 mA Max.*	
Control Voltage	1.65 VDC ±1.5 VDC for Vcc = 3.3 VDC, 2.5 VDC ±2.0 VDC for VCC = 5.0 VDC	5.1 Max.
Slope	Positive	
Jitter	<1.0 pS RMS (12 kHz to 20 MHz)**	
Operating	See Operating Temperature Table in Part Number Guide	Dimension Units: mm Pin Connection
Storage	-55° C to +125° C	1 Control Voltage 2 GND 3 Output 4 Vcc

	Part Number Gui	de S	Sample Part Number: I202-1BC3-27.000 MHz		
Package	Operating Temperature	Frequency Stability	Pullability	Supply Voltage	Frequency
1202 - 1203 -	1 = 0° C to +70° C	F = ±20 ppm	B = ± 50 ppm min.	5 = 5.0 VDC	- 27.000 MHz
	3 = -20° C to +70° C	X = ±30 ppm	$C = \pm 100 \text{ ppm min.}$	3 = 3.3 VDC	
	4 = -30° C to +75° C	B = ±50 ppm	K = ± 150 ppm min.		
	2 = -40° C to +85° C	C = ±100 ppm	$L = \pm 200 \text{ ppm min.}$		

NOTE: A 0.01 µF bypass capacitor is recommended between Vcc (pin 4) and GND (pin 2) to minimize power supply noise. * Frequency, supply, and load related parameters. Frequency related, for additonal information contact your sales representative.

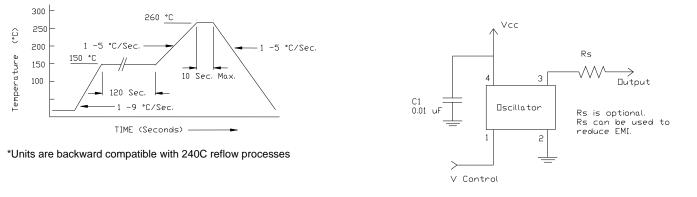




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Pb Free Solder Reflow Profile:

Typical Application:



Package Information:

MSL = N.A. (package does not contain plastic, storage life is unlimited under normal room conditions). Termination = e4- (Sn / Cu / Ag over Ni over Kovar base metal).

Environmental Specifications

Thermal Shock	MIL-STD-883, Method 1011, Condition A		
Moisture Resistance	MIL-STD-883, Method 1004		
Mechanical Shock	MIL-STD-883, Method 2002, Condition B		
Mechanical Vibration	MIL-STD-883, Method 2007, Condition A		
Resistance to Soldering Heat	J-STD-020C, Table 5-2 Pb-free devices (except 2 cycles max)		
Hazardous Substance	Pb-Free / RoHS / Green Compliant		
Solderability	JESD22-B102-D Method 2 (Preconditioning E)		
Terminal Strength	MIL-STD-883, Method 2004, Test Condition D		
Gross Leak	MIL-STD-883, Method 1014, Condition C		
Fine Leak	MIL-STD-883, Method 1014, Condition A2, R1=2x10-8 atm cc/s		
Solvent Resistance	MIL-STD-202, Method 215		

Marking

Line 1: ILSI and Date Code

Line 2: XXXX (Part Number detail = I203-XXXX-Freq.)

Line 3: Frequency