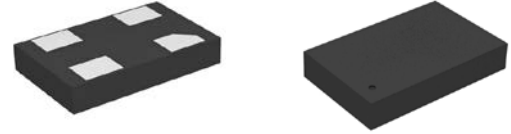




Features

- Frequency Range: 4 to 133 MHz
- Output Type: CMOS
- Frequency Tolerance: ± 100 ppm
- Supply Voltage: 1.8 to 3.3 V
- Power Consumption: 1.9 mA (1.8 V)
- Standby Current: < 1 uA
- Standard Package: 5.0 x 3.2 mm
- Operating Temperature: 0 to 70 °C
-20 to 70 °C



This product is rated "Green", please contact factory for environmental compliancy information

Specification

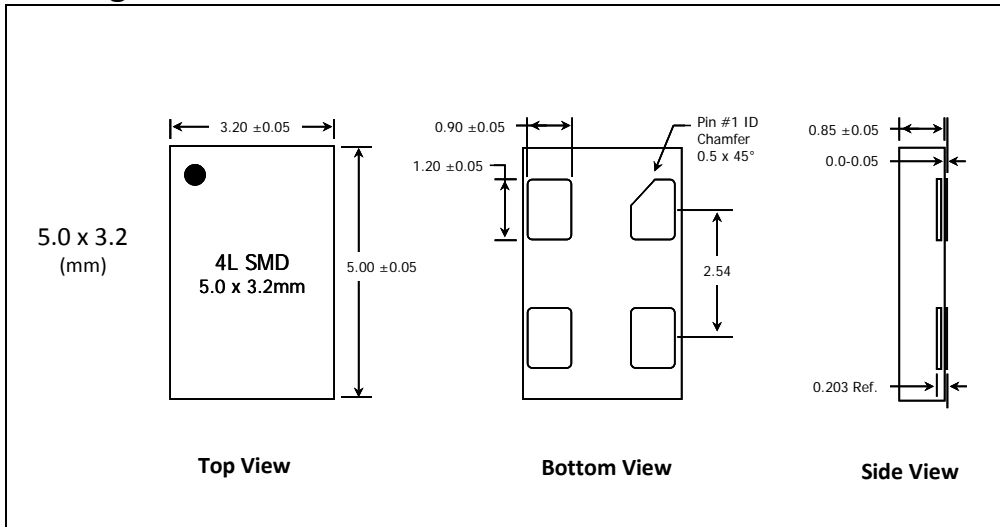
Parameter	Symbol	Specifications			Conditions
Supply Voltage	VDD	1.8 V	2.5 V	3.3 V	Nominal
Output Frequency	F _{OUT}	4 to 133 MHz**			See ordering code
Frequency Stability	F _{STB}	± 100 ppm			Total Frequency Stability*
Supply Current	IDD	1.9 mA	2.0 mA	2.2 mA	Typical; No load condition; 25°C
Quiescent Current	I _{STBY}	1 uA			STBY# = GND
Input LOW level	V _{IL}	0.3 VDD (max)			At STBY# pin
Input HIGH level	V _{IH}	0.7 VDD (min)			
Output LOW level	V _{OL}	0.1 VDD (max)			I _{OL} = - 1mA
Output HIGH level	V _{OH}	0.9 VDD (min)			I _{OH} = 1mA
Rise/Fall Time	T _R /T _F	2.75ns	2.3ns	1.9ns	20% to 80% x VDD. Output load (CL) = 4pF
Symmetry	SYM	45% / 55%			For frequencies < =100MHz;
		40% / 60%			For frequencies > 100MHz;
Start-up time	T _{ST}	100 us			Output valid time after VDD meets the specified range & STBY# transition
Period Jitter	PJ _{RMS}	17 ps	6 ps	5 ps	4pF load; 75MHz
Cycle to Cycle Jitter	CCJ _{MAX}	120 ps	50 ps	40 ps	4pF load; 75MHz

Note: Above specifications are typical unless otherwise specified.

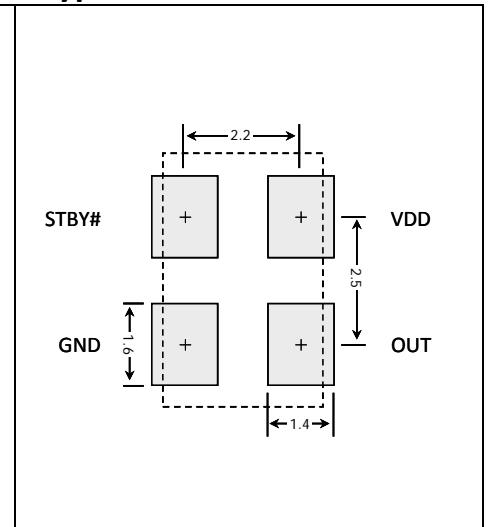
* Stability over temperature, supply variation, 3x reflow, load variation, aging (10 years)

** 26MHz, 27MHz and 54MHz are supported by 3CV04

Package Outline and Dimensions



Typical PCB Land Pattern



Absolute Maximum Ratings

Stresses beyond those listed under *Absolute Maximum Ratings* may cause permanent damage to the device. These ratings are stress specifications only. Functional operation of product at these or under any condition beyond those listed in the operating specifications is not implied. Exposure to absolute maximum rated conditions may affect product reliability.

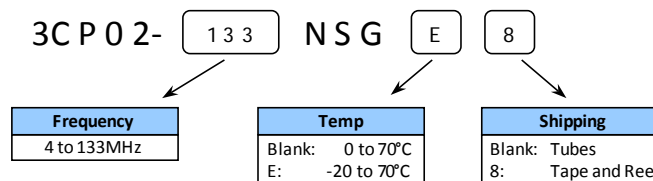
Item	Maximum Absolute Rating
VDD	4.6V
STBY#	-0.5V to VDD + 0.5V
OUT	-0.5V to VDD + 0.5V
Storage Temperature	-65°C to 150°C

Pin Descriptions

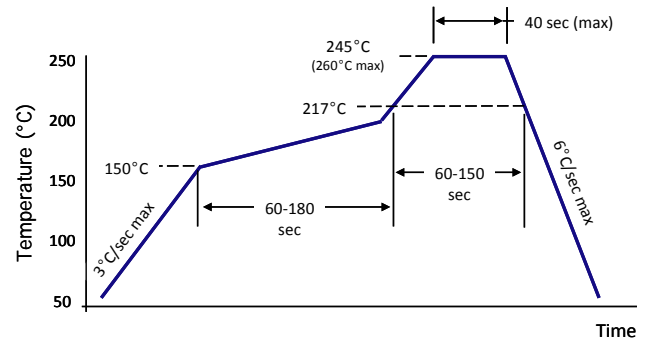
Pin #	Name	Description
1	STBY#	Standby Mode ¹ (0 = Output Disabled)
2	GND	Ground
3	OUT ²	CMOS Output
4	VDD	Power

1. Pulled high internally
2. Weak pull down to GND during STBY# enable and startup

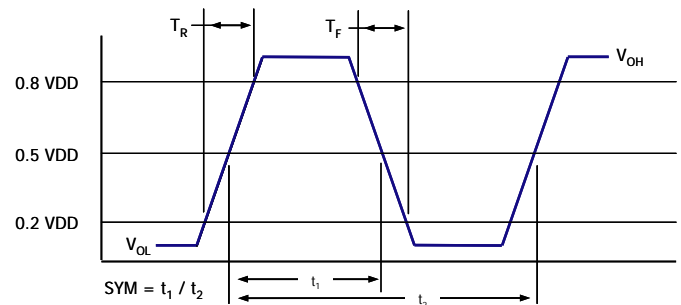
Ordering Information



Solder Reflow Profile



Output Wave Form



www.IDT.com

6024 Silver Creek Valley Road
San Jose, California 95138

Sales

800-345-7015 (inside USA)
+1 408-284-8200 (outside USA)
Fax: 408-284-2775

Technical Support

crystalfreetechnsupport@idt.com
+408-739-5400

DISCLAIMER Integrated Device Technology, Inc. (IDT) and its subsidiaries reserve the right to modify the products and/or specifications described herein at any time and at IDT's sole discretion. All information in this document, including descriptions of product features and performance, is subject to change without notice. Performance specifications and the operating parameters of the described products are determined in the independent state and are not guaranteed to perform the same way when installed in customer products. The information contained herein is provided without representation or warranty of any kind, whether express or implied, including, but not limited to, the suitability of IDT's products for any particular purpose, an implied warranty of merchantability, or non-infringement of the intellectual property rights of others. This document is presented only as a guide and does not convey any license under intellectual property rights of IDT or any third parties.

IDT's products are not intended for use in life support systems or similar devices where the failure or malfunction of an IDT product can be reasonably expected to significantly affect the health or safety of users. Anyone using an IDT product in such a manner does so at their own risk, absent an express, written agreement by IDT.

Integrated Device Technology, IDT and the IDT logo are registered trademarks of IDT. Other trademarks and service marks used herein, including protected names, logos and designs, are the property of IDT or their respective third party owners.

Copyright 2010, 2011. All rights reserved.