imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



PERIC PSE Tec						
SPECIFICAT	TION F	FOR	AF	PPROVAL		
CUSTOMER						
NOMINAL FREQUENCY		12	25.000	00000 MHz		
PRODUCT TYPE	TYPE FD 5.0x3.2 SEAM SEAL			ED CRYSTAL CLOCK OSCILLATOR		
SPEC. NO. (P/N)	C. NO. (P/N) FDC			2500026		
CUSTOMER P/N						
ISSUE DATE			April 1	13, 2011		
VERSION				С		
APPROVED	PREF	PARED	<u> </u>	QA		
Brenda	Claine			Canthon		
APPROVED BY CUSTOMER :				AVL Status		
Please return one copy v	vith approval to	o PSE-TW				
PSE Technology Corpor						
No.2, Tzu-Chiang 5th Rd, Chung Li Industrial Park, Chung Li City, Taoyuan County, Taiwan (R.O.C.)*PbTEL: 886-3-451-8888 FAX: 886-3-461-3865*HF			Pb-free RoHS Compliant IF-Halogen Free REACH Compliant			
*** A company of 😰	PERICON	1 Semico	ondua	ctor Corporation ***		

TYPE FD 5.0x3.2 SEAM SEALED CRYSTAL CLOCK OSCILLATOR

FDC500026

VER. C 13-Apr-11

VERSION HISTORY

Version No.	Version Date	Customer Receipt Date	Supplier Receipt Date	Description	Notes		
А	Aug.3,2009			Initial Release			
В	Nov.23,2010			New Logo			
С	Apr.13,2011			Added Start up time spec: 10ms max & Updated Suggested IR Reflow Profile			



TYPE FD 5.0x3.2 SEAM SEALED CRYSTAL CLOCK OSCILLATOR FDC500026 VER. C 13-Apr-11

ELECTRICAL SPECIFICATIONS

SRe Part Number : FDC500026

Item	Symbol	Specifications	Units	Notes	
Nominal Frequency	Fo	125.000000	MHz		
Frequency Stability	FT	± 50	ppm	**See note	
Operating Temperature Range	TR	-20 to +70	°C		
Supply Voltage	V _{DD}	+1.8 ± 5.0%	V		
Logic Type	LT	LVCMOS			
Supply Current, Output Enabled	I _{DD} /OE	20	mA	Max.	
Supply Current, Output Disabled	I _{DD} /OD	10	μA	Max.	
Duty Cycle (Symmetry)	DC/SY	45 / 55	%	Measured 50% of Waveform	
Rise / Fall Time	T _R /T _F	2.5	ns	Max. measured 20/80% of Waveform	
Output Voltage "0" Level	V _{OL}	10% V _{DD}	V	Max.	
Output Voltage "1" Level	V _{OH}	90% V _{DD}	V	Min.	
Output Load	CL	15	pF	Мах	
Jitter, Phase	RMS(1-σ)	1	ps	Max. 12KHz ~ 20MHz Frequency Band	
Jitter, Accumulated	RMS(1-σ)	3	ps	Max. 20,000 Consecutive Periods	
Jitter, Peak to Peak	Pk-Pk	30	ps	Max. 100,000 Random Periods	
Start Up Time	1 1	10	ms	Max.	
Storage Temperature Range		-55°C to +125°C	°C		

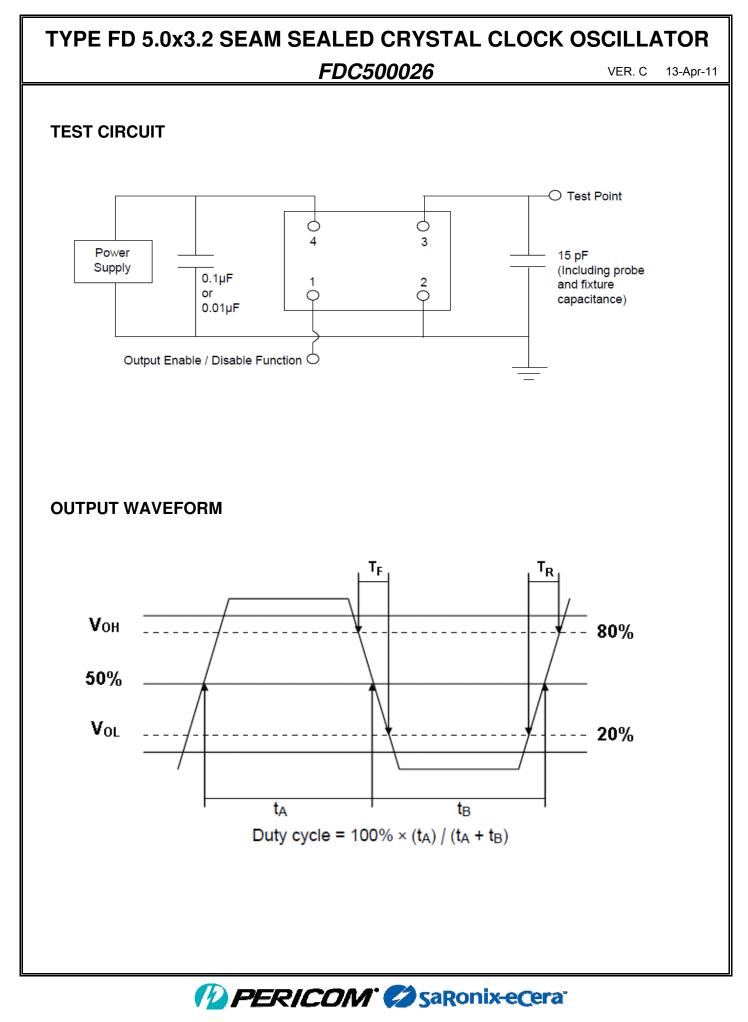
💥 This product doesn't include harmful substance that stipulated by SONY SS-00259 Level 1 and S-AT2-001 Level 1 standard. RoHS Compliant (Pb-Free).

**Stability includes all combinations of Operating Temperature, Load changes, rated Input (Supply) Voltage changes, Initial Calibration Tolerance (25°C), Aging (1 year at 25°C Average Effective Ambient Temperature), Shock and Vibration.

Output Enable / Disable Function

Parameter	Min.	Тур.	Max.	Units	Notes
Input Voltage (Pin1), Output Enable	$0.7V_{DD}$			V	Or Open
Input Voltage (Pin1), Output Disable (low power standby)			$0.3V_{\text{DD}}$	V	Output is Hi-Z
Internal Pullup Resistance	30			KΩ	
Output Disable Delay			200	ns	
Output Enable Delay			2	ms	





TYPE FD 5.0x3.2 SEAM SEALED CRYSTAL CLOCK OSCILLATOR FDC500026 VER. C 13-Apr-11

RELIABILITY SPECIFICATIONS

ENVIRONMENTAL:

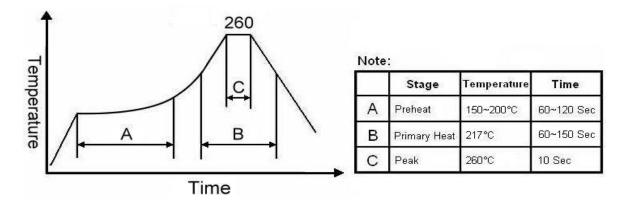
- a) THERMAL SHOCK: MIL-STD-883, Method 1011, Condition A
- b) MOISTURE RESISTANCE: MIL-STD-883, Method 1004
- c) VIBRATION: MIL-STD-883, Method 2007, Condition A
- d) RESISTANCE TO SOLDERING HEAT: J-STD-020D Table 5-2 Pb-free devices (except 2 cycles max)
- e) HAZARDOUS SUBSTANCE: Pb free and RoHS Compliant.

MECHANICAL:

- a) SHOCK: MIL-STD-883, Method 2002, Condition B
- b) SOLDERABILITY: JESD22-B102-D Method 2 (Preconditioning E)
- c) TERMINAL STRENGTH: MIL-STD-883, Method 2004, Test Condition D
- d) GROSS LEAK: MIL-STD-883, Method 1014, Condition C
- e) FINE LEAK: MIL-STD-883, Method 1014, Condition A2, R1=2x10⁻⁸ atm cc/s
- f) SOLVENT RESISTANCE: MIL-STD-202, Method 215

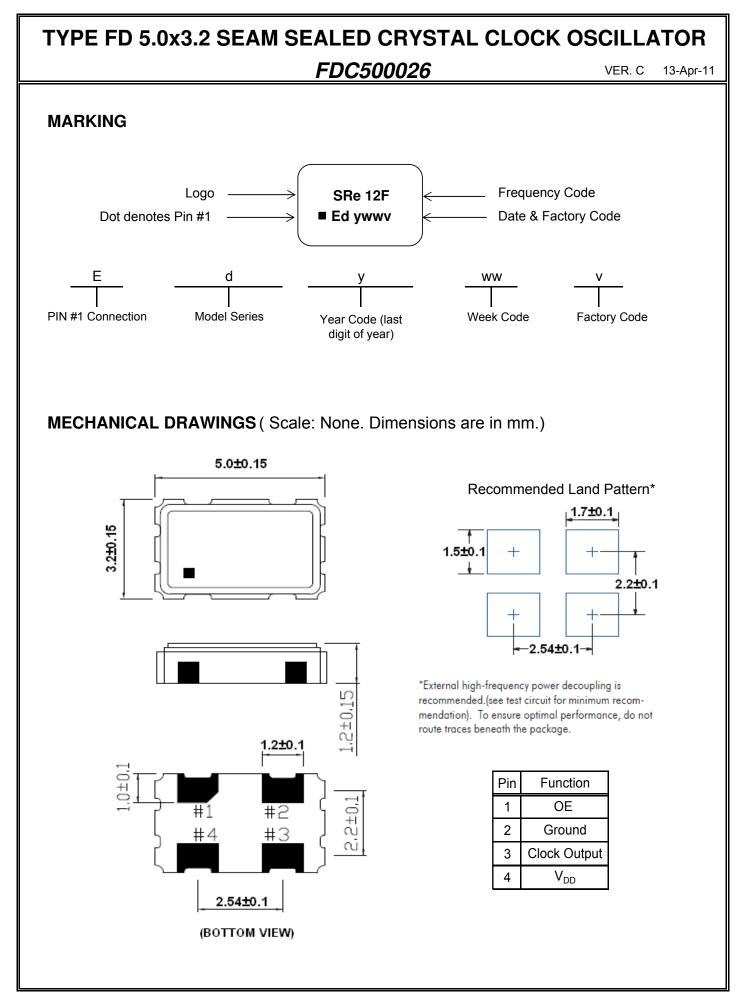
SUGGESTED IR REFLOW PROFILE

*As per IPC-JEDEC J-STD-020D



For soldering reflow profile and reliability test ratings go to: <u>http://www.pericom.com/pdf/sre/reflow.pdf</u>

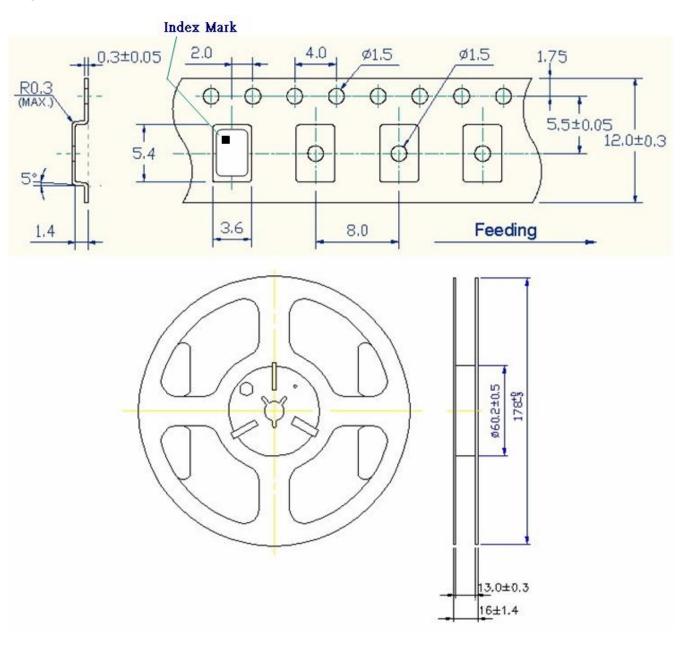






TYPE FD 5.0x3.2 SEAM SEALED CRYSTAL CLOCK OSCILLATORFDC500026VER. C13-Apr-11

Tape & Reel



- 1. 230mm minimum leafer which consist of carrier and/or tape followed by a minimum of 160mm of empty carrier tape sealed with cover tape.
- 2. 160mm minimum trailer of empty carrier tape sealed with cover tape.

PERICOM SaRonix-ecera

TYPE FD 5.0x3.2 SEAM SEALED CRYSTAL CLOCK OSCILLATOR FDC500026 VER. C 13-Apr-11

PACKING

