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

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ULTRA MINIATURE PLASTIC PACKAGE PURE SILICONTM CLOCK OSCILLATOR



2.5 x 2.0 x 0.80 mm

Life Size

(Pb) RoHS/RoHS II Compliant

FEATURES:

- Ultra Miniature Pure Silicon[™] Clock Oscillator
- MEMS Technolog y by Discera
- Low Power Consumption <10mA

ASDM

- \bullet Exceptional Stability Over Temp. at 40 to +85°C
- Low Cost-Compact QFN Plastic Packaging
- Compact Package design

► APPLICATIONS:

- CCD Clock for VTR Camera
- Equipment Connected to PCs
- Low Profile Equipment
- Lower Cost Crystal Oscillator Replacement
- Computers and Peripherals
- Portable Electronics (MP3 Players, Games)
- Consumer Electronics such as TV's, DVR's, etc.
- Vibrant, Shock-Prone & Humid Environments for Industrial Equipment
- Demanding Military & Automotive Electronics

STANDARD SPECIFICATIONS:

Parameters		Minimum	Typical	Maximum	Units	Notes	
Frequency Range:			1.0		150	MHz	
Operating Temperature:			0		+70	°C	See options
Storage Temperature:			-55		+150	°C	
Overall Frequency Stability*:			-100		+100	ppm	See options
Supply Voltage (Vdd):			+1.8~+3.3			V	See options
Supply Current (no load):	1.0 to 39.9999MHz			3	10	mA	No load RL=∞ T=25°C
	40.0 to 79.9999MHz			4	10		
	80.0 to 124.9999MHz			5	10		
	125.0 to 150MHz			6	10		
Output Voltage:		V _{OH}	$0.8*V_{dd}$				
		V _{OL}			0.2*V _{dd}	V	15pF
Rise Time:		Tr		1.3	2.0		15pF; T=25°C
Fall Time:		Tf		1.3	2.0	ns	20%/80%*VDD
Output Load:		15pF max / 10kΩ min.			pF	See options	
Symmetry:		45		55	%	@1/2Vdd	
Startup Time:				1.5	3.0	ms	
Disable Time:				20	100	ns	
Disable Stand-by Current:					1	uA	
Tri-state Function (Stand-by) :		"1" (VIH≥0.75*Vdd) or Open: Oscillation "0" (VIH<0.25*Vdd) : Hi Z			V		
Cycle to cycle jitter:				95		ps	F=100MHz
Aging:			-5.0		+5.0	ppm	First year

Absolute Maximum Ratings

Item	Minimum	Maximum	Unit	Condition
Supply Voltage	-0.3	+4.0	V	
Input Voltage	-0.3	Vdd+0.3	V	
Junction Temp.		+150	°C	
Soldering Temp.		+260	°C	40sec max
ESD			V	
HBM		2,000		
MM		200		
CDM		500		



5101 Hidden Creek Ln Spicewood TX 78669 Phone: 512-371-6159 | Fax: 512-351-8858 For terms and conditions of sales, please visit: www.abracon.com REVISED: 12.6.2017



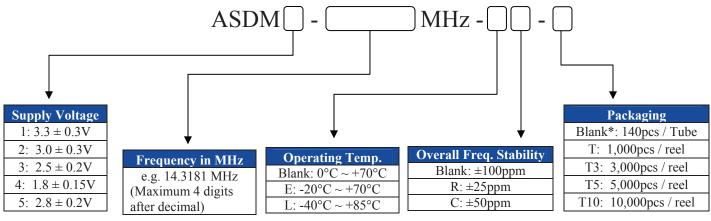
Life Size

2.5 x 2.0 x 0.80 mm



RoHS/RoHS II Compliant

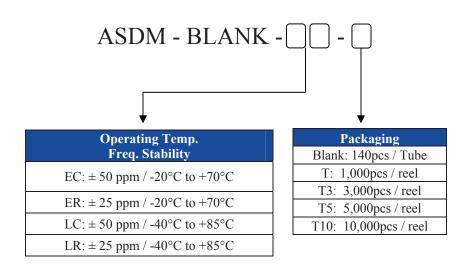
OPTIONS AND PART IDENTIFICATION: Programmed Orders (Quantity > 1,000pcs)



* For Quick turn-around programmable orders < 1000pcs: Due to the immediate availability of stock and the qty of the order, the parts may be delivered as BULK: Cut Tape, Loose parts in Antistatic Bag or in Tube(s). The MOQ per the series will still apply for Tube packaging.

Un-Programmed Orders (Quantity < 1,000pcs)

Blank un-programmed oscillators are available for quick turn engineering requirements. Please call ABRACON for more information





REVISED: 12.6.2017



PURE SILICONTM CLOCK OSCILLATOR (Pb) RoHS/RoHS II Compliant

Life Size 2.5 x 2.0 x 0.80 mm

ASDM

ULTRA MINIATURE PLASTIC PACKAGE

OUTLINE DRAWING: 2.5±0.05 [0.098±0.002] Recommended Land Pattern 1.65 [0.065] #4 #3 #4 1.65 [0.065] 0.7 [0.028] 0.7 [0.028] 0.85 [0.033] CO.25 #2 #1 #1 #2 0.65±0.05 [0.026±0.002] 2.0±0.05 [0.079±0.002] 0.2 [0.008] 0.65±0.10 [0.026±0.004] 0.65 [0.026] Pin Terminal No Note: Recommend using an approximately Standby 1 0.01uF bypass capacitor between PIN 2 and 4. 2 GND 3 0.85±0.05 [0.033±0.002] Output 4 VDD Dimension : mm (Inches) **REFLOW PROFILE: TAPE & REEL:** Tape and reel 1,000pcs/reel FEEDING (PULL) DIRECTION 2.0 ± 0.1 0.30 ± 0.05 4.0±0.1 ø1.55±0.05 1.75 ± 0 ♠ ф .5±0.05 8.0+0.3/-0.1 20-40 PIN1 max. Sec Cher Mat 260°C 85 217°C [emperature (°C) 60-150 200°C Sec ø1.0 min 2.25±0.05 1.20 max. Reflow 60-180 150°C 9.0 ref. Sec Cool Pre heat 25°C f Time 8 min max ۲ ø180 Ramp-Up Rate (200°C to Peak Temp) 3°C/Sec Max. Preheat Time 150°C to 200°C 60-180 Sec Tube: 140 pcs/tube Time maintained above 217°C 60-150 Sec Peak Temperature 255-260°C 2.50±0.2 XXXXX 🛦 ANȚISTATIC XXXY Time within 5°C of actual Peak 20-40 Sec

Unit orientation in tube:

Dimension : Inches (mm)

Need a test socket for the ASDM Series? To view where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or compatible **PRECISION TEST & BURN-IN SOCKETS** property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.

Ramp-Down Rate

Time 25°C to Peak Temperature

ATTENTION: Abracon Corporation's products are COTS - Commercial-Off-The-Shelf products; suitable for Commercial. Industrial and.



for these parts, click here.

5101 Hidden Creek Ln Spicewood TX 78669 Phone: 512-371-6159 | Fax: 512-351-8858 For terms and conditions of sales, please visit: www.abracon.com **REVISED: 12.6.2017** ABRACON IS ISO9001-2008 CERTIFIED

6°C/Sec Max.

8 min Max.