MEMS CLOCK OSCILLATOR

ASDM

RoHS/RoHS II Compliant

2.5 x 2.0 x 0.85 mm

FEATURES:

- Low Power Consumption
- Exceptional Stability Over Temp. at -40°C 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

Parameters		Minimum	Typical	Maximum	Units	Notes	
Frequency Range:			1.0		150	MHz	
Operating Temperature:			0		+70	°C	See options
Storage Temperature:			-55		+150	°C	
Supply Voltage (Vdd):		+1.8 ~ +3.3			V	See options	
Supply Current (no load):	1.0 to 39.9999MHz			7	15	mA	Vdd=3.3V
	40.0 to 79.9999MHz			8	15		No load
	80.0 to 124.9999MHz			9	15		RL=∞
	125.0 to 1501	MHz		10	15		T=25°C
Output Voltage:		V _{OH}	$0.8*V_{dd}$				
		V _{OL}			$0.2*V_{dd}$	V	15pF
Rise Time: Ti		Tr		1.3	3.0		15pF; T=25°C
Fall Time:		Tf		1.3	3.0	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:					15	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:				60		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		

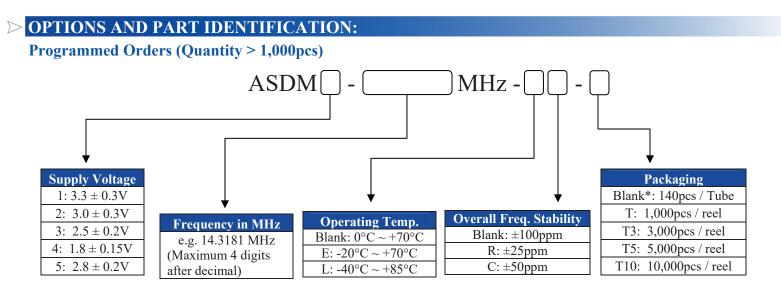


5101 Hidden Creek Ln Spicewood TX 78669 Phone: 512-371-6159 | Fax: 512-351-8858 For terms and conditions of sales, please visit: www.abracon.com REVISED: 1.4.2021

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(Pb) RoHS/RoHS II Compliant

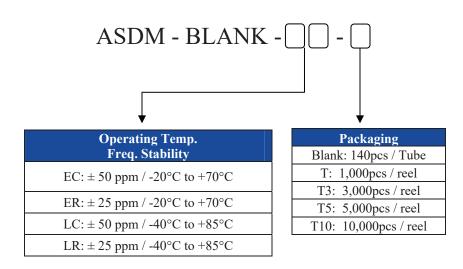
2.5 x 2.0 x 0.80 mm



* 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: 1.4.2021

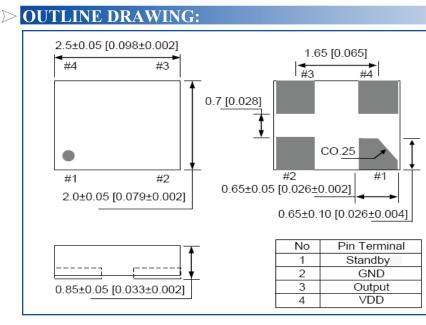
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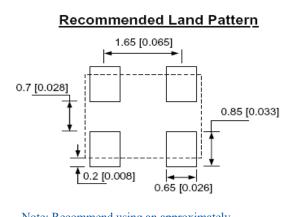




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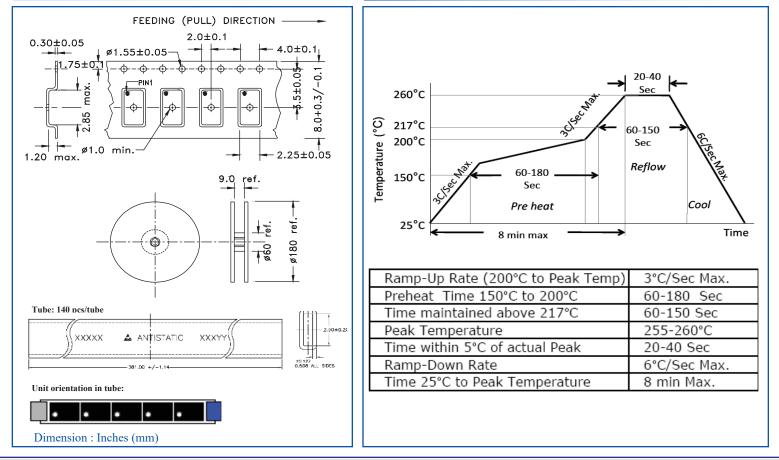


Note: Recommend using an approximately 0.01uF bypass capacitor between PIN 2 and 4.

Dimension : mm (Inches)

TAPE & REEL: Tape and reel 1,000pcs/reel

REFLOW PROFILE:



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