MEMS CLOCK OSCILLATOR

ASDM





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

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	
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 No load RL=∞
	40.0 to 79.9999MHz			8	15		
	80.0 to 124.9999MHz			9	15		
	125.0 to 150N	MHz		10	15		T=25°C
Ontout Waltagas		V_{OH}	$0.8*V_{dd}$				
Output Voltage:		V_{OL}			$0.2*V_{dd}$	V	15pF
Rise Time:		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:	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		



REVISED: 1.4.2021

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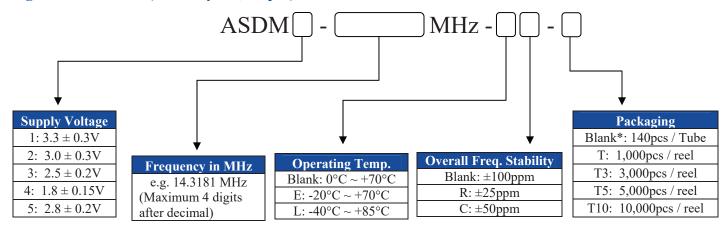






> OPTIONS AND PART IDENTIFICATION:

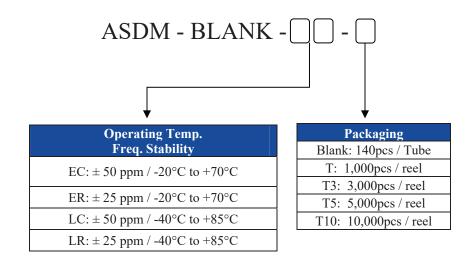
Programmed Orders (Quantity > 1,000pcs)



^{*} 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





5101 Hidden Creek Ln Spicewood TX 78669

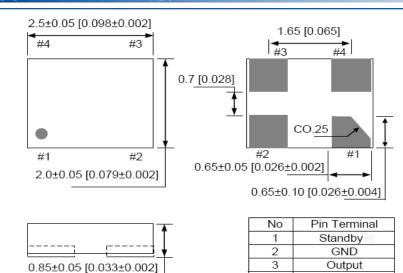
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OUTLINE DRAWING:



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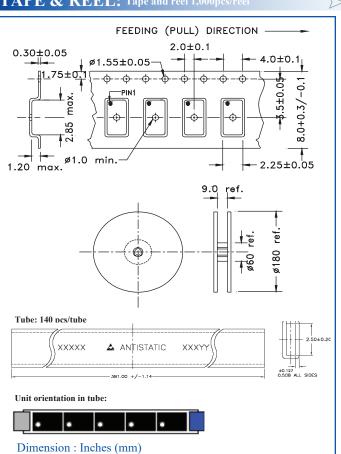
VDD

0.7 [0.028] 0.85 [0.033] 0.85 [0.026]

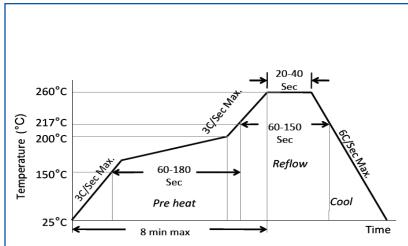
Note: Recommend using an approximately 0.01uF bypass capacitor between PIN 2 and 4.

Dimension: mm (Inches)

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



REFLOW PROFILE:



3°C/Sec Max.		
60-180 Sec		
60-150 Sec		
255-260°C		
20-40 Sec		
6°C/Sec Max.		
8 min Max.		

ATTENTION: Abracon LLC's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependent Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon LLC is required. Please contact Abracon LLC for more information.



单击下面可查看定价,库存,交付和生命周期等信息

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