

 RoHS/RoHS II Compliant

 7.0 x 5.0 x 0.85 mm

Key Electrical Specifications $-V_{dd} = 2.5V$

ASVMB

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Parameters		Minimum	Typical	Maximum	Units	Notes	
Supply Current (no load):	1.0 to 39.9999MHz			6	15	mA	CL=0p
	40.0 to 79.9999MHz			7	15	mA	RL=∞
	80.0 to 124.9999MHz			8	15	mA	T=25°C
	125.0 to 15	0MHz		9	15	mA	(Standard CL: 15pF)
	1.0 to 39.9999MHz			7	15	mA	CL=0p
	40.0 to 79.9999MHz			8	15	mA	RL=∞
	80.0 to 124.9999MHz			9	15	mA	T=25°C
	125.0 to 150MHz			10	15	mA	(CL option: 25pF)
	1.0 to 39.9999MHz			8	16	mA	CL=0p
	40.0 to 79.9999MHz			9	16	mA	RL=∞
	80.0 to 124.9999MHz			10	16	mA	T=25°C
	125.0 to 15	0MHz		11	16	mA	(CL option: 40pF)
		V _{OH}	$0.8*V_{dd}$			V	
Output Voltage:		V _{OL}			$0.2*V_{dd}$	V	CL=15, 25pF
		V _{OH}	$0.9*V_{dd}$			V	
		V _{OL}			0.1*V _{dd}	V	CL=40pF
		Tr		1.0	2.0	ns	CL=15pF; T=25°C
		Tf		0.9	2.0	ns	20%/80%*VDD
Rise Time:		Tr		1.1	2.0	ns	CL=25pF; T=25°C
Fall Time:		Tf		0.9	2.0	ns	20%/80%*VDD
		Tr		1.0	2.0	ns	CL=40pF; T=25°C
		Tf		0.9	2.0	ns	20%/80%*VDD
Cycle to Cycle Jitter:			50		ps	F=100MHz	
Period Jitter RMS:			5		ps	F=100MHz	

Key Electrical Specifications – $V_{dd} = 3.3V$

Parameters		Minimum	Typical	Maximum	Units	Notes		
	1.0 to 39.9999MHz			7	15	mA	CL=0p	
Supply Current (no load):	40.0 to 79.9999MHz			8	15	mA	RL=∞	
	80.0 to 124.9999MHz			9	15	mA	T=25°C	
	125.0 to 150MHz			10	15	mA	(Standard CL: 15pF)	
	1.0 to 39.9999MHz			8	16	mA	CL=0p	
	40.0 to 79.9999MHz			9	16	mA	RL=∞	
	80.0 to 124.	9999MHz		10	16	mA	T=25°C	
	125.0 to 150	MHz		11	16	mA	(CL option: 25pF)	
	1.0 to 39.99	99MHz		8	16	mA	CL=0p	
	40.0 to 79.9999MHz			9	16	mA	RL=∞	
	80.0 to 124.9999MHz			10	16	mA	T=25°C	
	125.0 to 150MHz			11	16	mA	(CL option: 40pF)	
		V _{OH}	0.8*V _{dd}			V		
Output Voltage:		V _{OL}			0.2*V _{dd}	V	CL=15pF	
Output voltage.		V _{OH}	0.9*V _{dd}			V		
		V _{OL}			0.1*V _{dd}	V	CL=25, 40pF	
		Tr		1.0	2.0	ns	CL=15pF; T=25°C	
		Tf		0.9	2.0	ns	20%/80%*VDD	
Rise Time: Fall Time:		Tr		1.0	2.0	ns	CL=25pF; T=25°C	
		Tf		0.9	2.0	ns	20%/80%*VDD	
		Tr		0.8	2.0	ns	CL=40pF; T=25°C	
		Tf		0.8	2.0	ns	20%/80%*VDD	
Cycle to Cycle Ji	Cycle to Cycle Jitter:			50		ps	F=100MHz	
Period Jitter RMS	S:			5		ps	F=100MHz	



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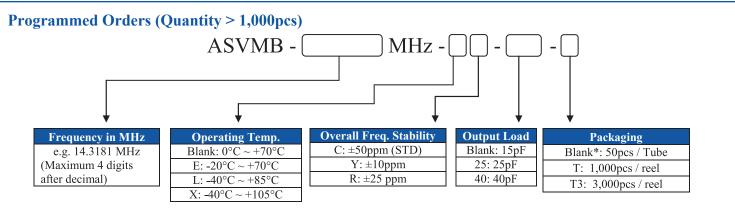
RoHS/RoHS II Compliant

ASVMB

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	
Storage Temp.	-55	+150	°C	
Soldering Temp.		+260	°C	40sec max
ESD			V	
HBM		4,000		
MM		200		
CDM		1,500		

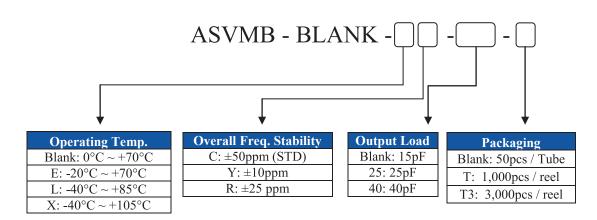
> **OPTIONS AND PART IDENTIFICATION:** (Left Blank if Standard)



* 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

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





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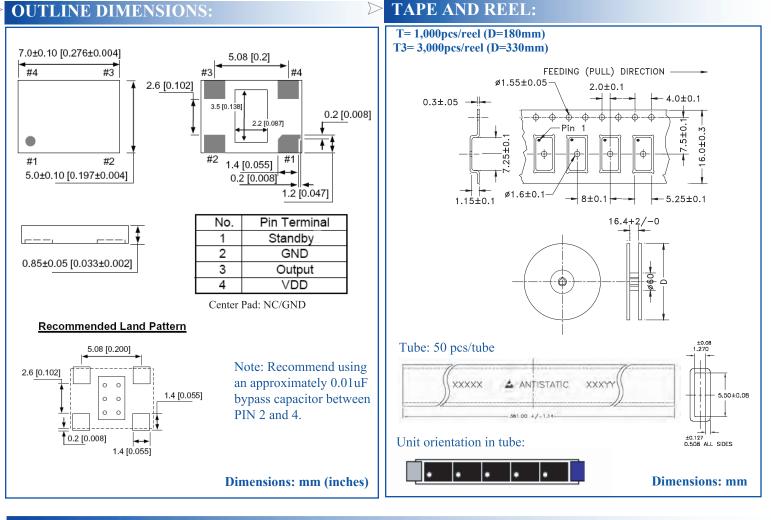
MEMS CLOCK OSCILLATOR



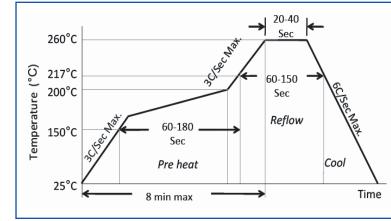
(Pb) RoHS/RoHS II Compliant

7.0 x 5.0 x 0.85 mm





REFLOW PROFILE:



Ramp-Up Rate (200°C to Peak Temp)	3°C/Sec Max.
Preheat Time 150°C to 200°C	60-180 Sec
Time maintained above 217°C	60-150 Sec
Peak Temperature	255-260°C
Time within 5°C of actual Peak	20-40 Sec
Ramp-Down Rate	6°C/Sec Max.
Time 25°C to Peak Temperature	8 min Max.

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