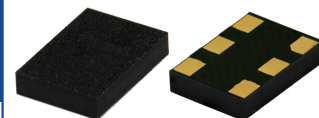


Ultra-Low Phase Jitter LVCMOS SMD Clock Oscillator

ASVMX-25.000MHz-5ABC



RoHS/RoHS II compliant



7.0 x 5.0 x 1.4mm

Moisture Sensitivity Level – MSL 3

FEATURES:

- 25MHz LVCMOS
- Typical phase noise: 100fs (Integration range: 1.875MHz-20MHz)
- ±50ppm total frequency stability over -40°C to +85°C temperature range
- Industry standard 6-Pin 7 x 5mm LGA package

APPLICATIONS:

- Communications
- Backplane reference clock
- SERDES reference clock
- FPGA

KEY ELECTRICAL SPECIFICATIONS

Item	Minimum	Maximum	Unit	Condition
Supply Voltage	-0.3	+3.6	V	
Storage Temp.	-55	+125	°C	
Lead Temp.(soldering, 10s)		+260	°C	
ESD (HBM)		2	kV	

VDD = 2.375 - 3.63V, TA = -40°C to +85°C, outputs terminated with 50 Ohms to VDD /2.⁽¹⁾

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency	25.000			MHz	
Operating Temperature (TA)	-40		+85	°C	
Overall Frequency Stability ⁽²⁾	-50		+50	ppm	
Supply Voltage (VDD)	+2.375		+3.63	V	
Supply Current (IDD)			95	mA	
Output Logic Level	V _{OH}	V _{DD} - 0.8		V	
	V _{OL}		0.6	V	
Input Logic Level	V _{IH}	2	V _{DD} + 0.3	V	
	V _{IL}	-0.3	0.8	V	
Start-up Time			20	ms	
Rise Time (Tr)	100		500	ps	No load 20% to 80%
Fall Time (Tf)	100		500		
Duty Cycle	45		55	%	
Phase Noise	Integration Range: 12kHz to 20MHz		220	fsRMS	
	Integration Range: 1.875MHz to 20MHz		100		

Notes:

1. Guaranteed after thermal equilibrium
2. Inclusive of initial accuracy, temperature drift, aging, shock, vibration from -40°C to +85°C.

PART IDENTIFICATION

ASVMX-25.000MHz -5ABC -

Packing

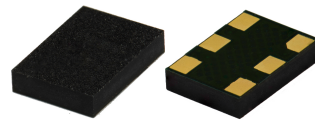
Blank: Bulk or Tube
T: Tape & Reel (1k/reel)

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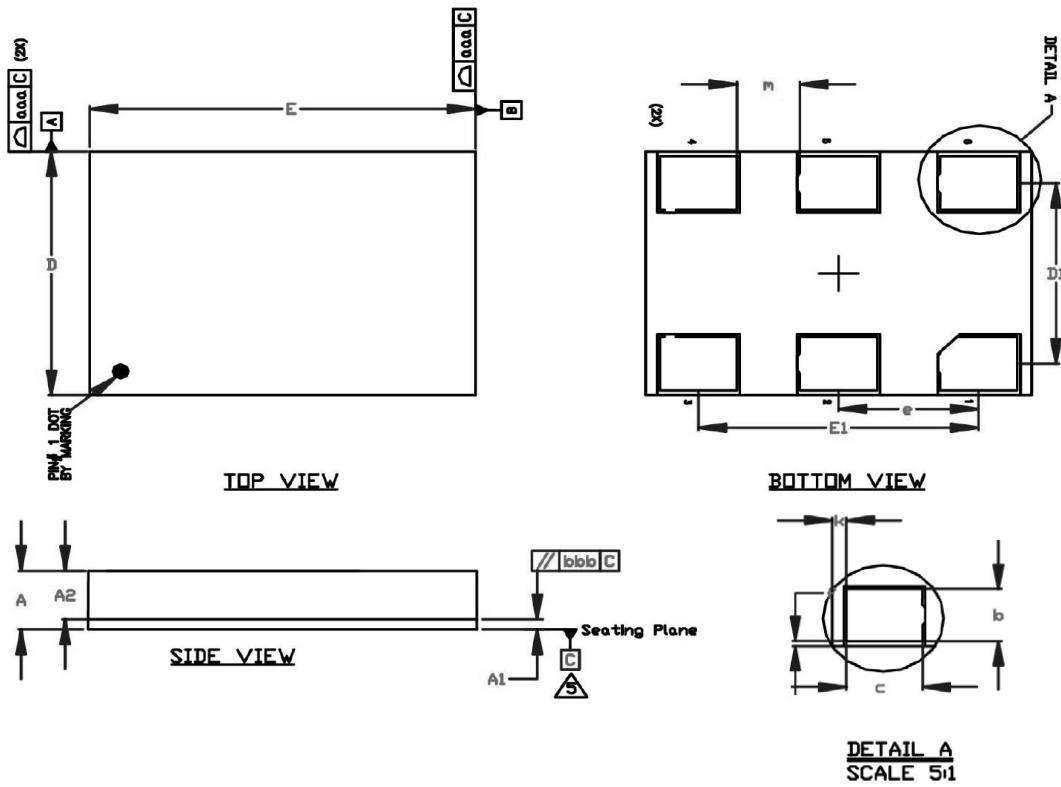


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7.0 x 5.0 x 1.4mm

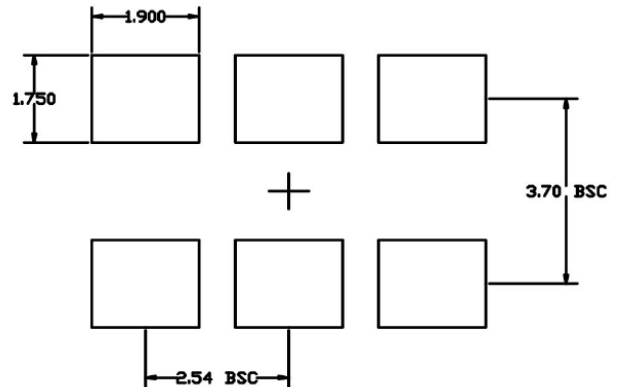
OUTLINE DIMENSION



Ref.	Min.	Nom.	Max.
A	1.260	1.330	1.400
A1	0.190	0.230	0.270
A2	1.070	1.100	1.130
D	4.900	5.000	5.100
D1	3.700 BSC		
E	6.900	7.000	7.100
E1	5.080 BSC		
b	1.050	1.100	1.150
c	1.350	1.400	1.450
e	2.540 BSC		
f	0.050	0.100	0.150
k	0.210	0.260	0.310
m	1.090	1.140	1.190
n	36		

Dimensional Tolerance	
aaa	0.100
bbb	0.070

Recommended Land Pattern



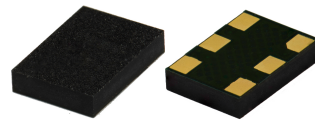
Dimensions: mm

Ultra-Low Phase Jitter LVCMOS SMD Clock Oscillator

ASVMX-25.000MHz-5ABC

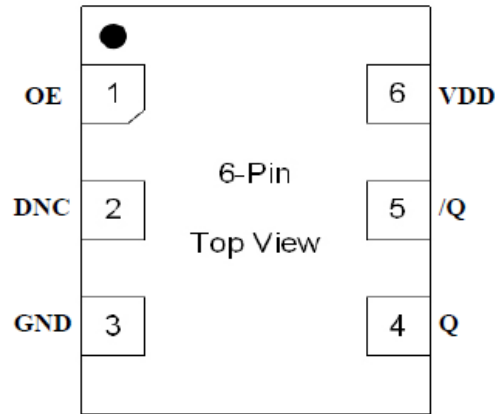


RoHS/RoHS II compliant



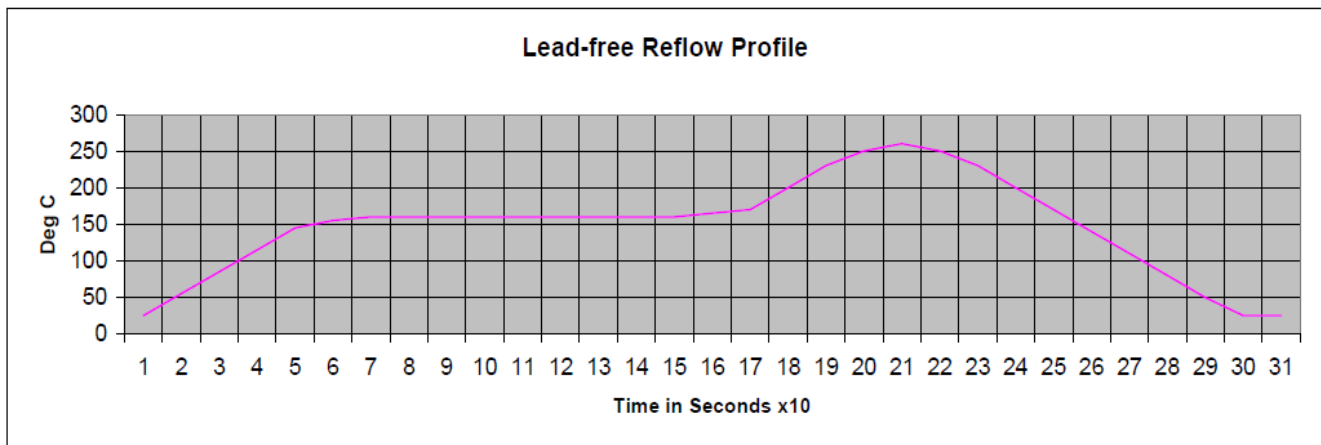
7.0 x 5.0 x 1.4mm

PIN CONFIGURATION



Pin #	Pin Name	Pin Type	Pin Level	Pin Function
1	OE	I, SE	LVCMOS	Output Enable, disables output to tri-state. 0 = Disabled, 1= Enabled, 50k Ω Pull-up
2	DNC			Make no connection, leave floating
3	GND	PWR		Power Supply Ground
4	Q	O, SE	LVCMOS	Clock Output
5	DNC			Make no connection, leave floating
6	VDD	PWR		Power Supply

REFLOW PROFILE



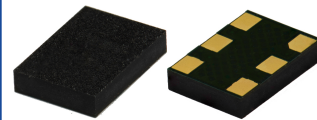
Parameters	Specifications
Average Ramp-up Rate	3°C /second max.
Pre-Heat Temp 150 – 200°C	60 – 180 second
Temp > 217°C	60 – 150 second
Time @ Peak Temperature	20 – 40 second
Peak Temperature	260°C + 0°C / -5°C
Ramp-down Rate	-6°C / second max.
Time 25°C to Peak Temp.	8 minutes max.

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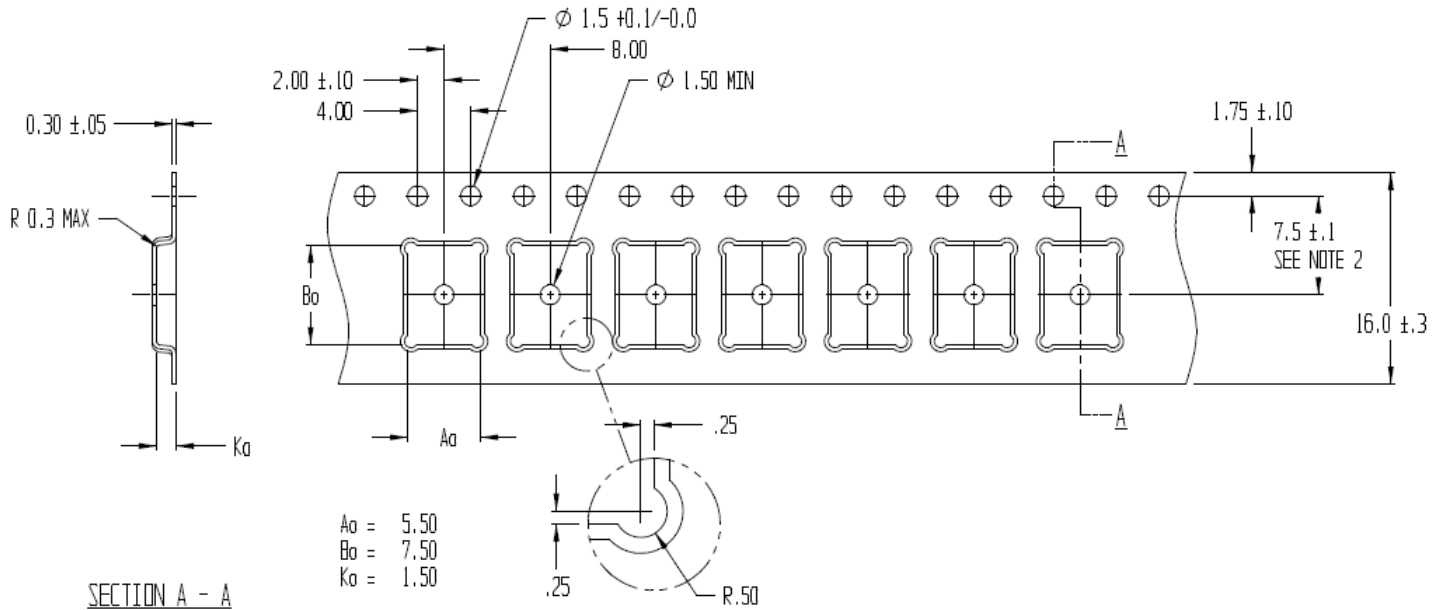


7.0 x 5.0 x 1.4mm

TAPE & REEL

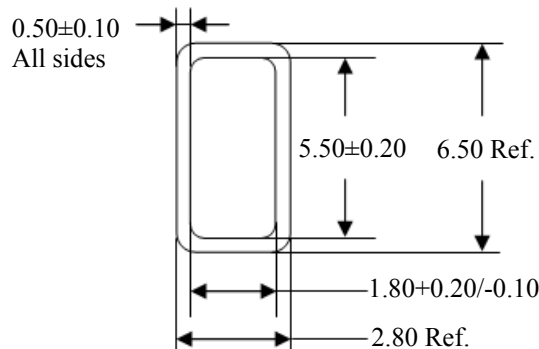
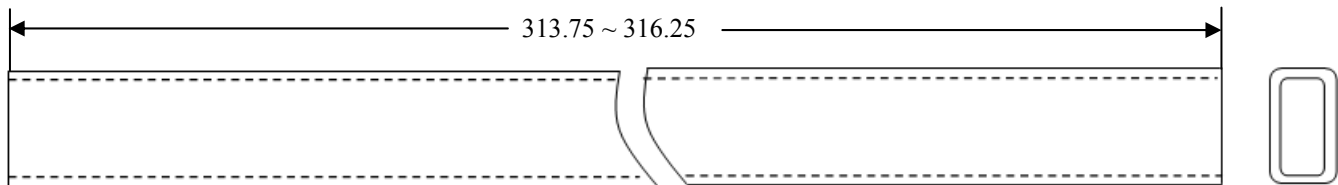
T = Tape & Reel, 1000pcs/reel. Reel Size = 7-inch Reel

MSL-3 packaging applies to -T option.



Blank = Bulk or Tube (43pcs/tube)

MSL-3 packaging applies to MOQ=43 units (tube)



Dimensions: mm

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