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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!



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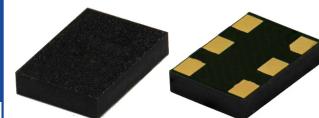


Ultra-Low Phase Jitter LVCMOS SMD Clock Oscillator

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)
- ± 50 ppm total frequency stability over -40°C to $+85^{\circ}\text{C}$ 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	$^{\circ}\text{C}$	
Lead Temp.(soldering, 10s)		+260	$^{\circ}\text{C}$	
ESD (HBM)		2	kV	

VDD = 2.375 - 3.63V, TA = -40°C to $+85^{\circ}\text{C}$, outputs terminated with 50 Ohms to VDD /2.⁽¹⁾

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency	25.000			MHz	
Operating Temperature (TA)	-40		+85	$^{\circ}\text{C}$	
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 $+85^{\circ}\text{C}$.

PART IDENTIFICATION

ASVMX-25.000MHz -5ABC -

Packing

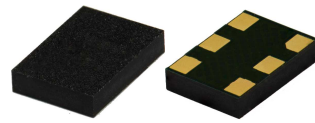
Blank: Bulk or Tube
T: Tape & Reel (1k/reel)

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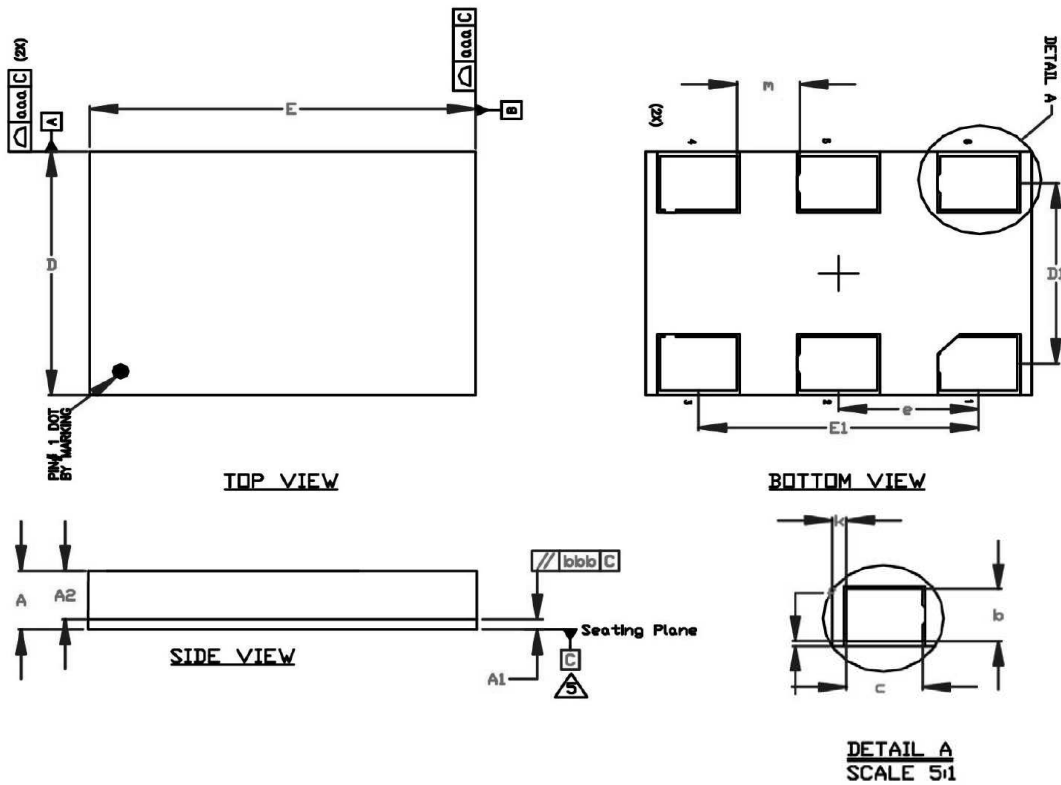


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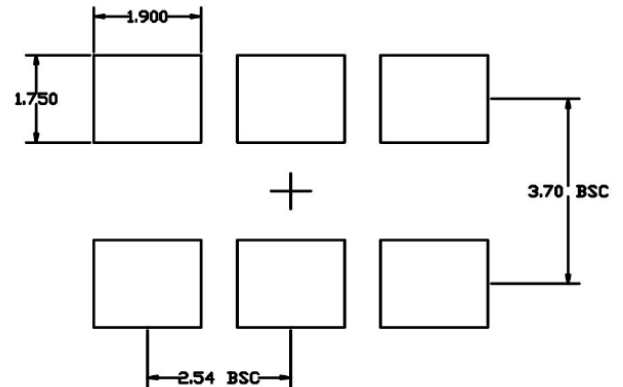
OUTLINE DIMENSION



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



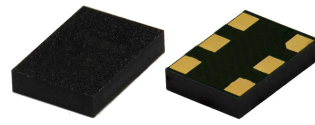
Dimensions: mm

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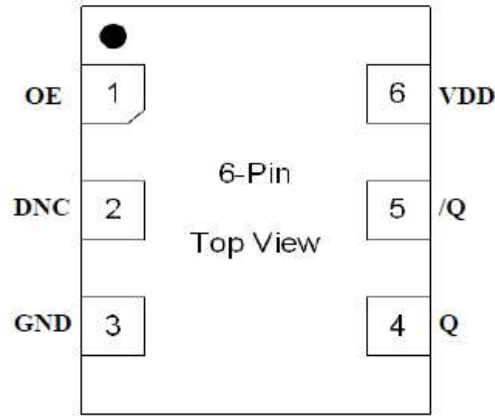


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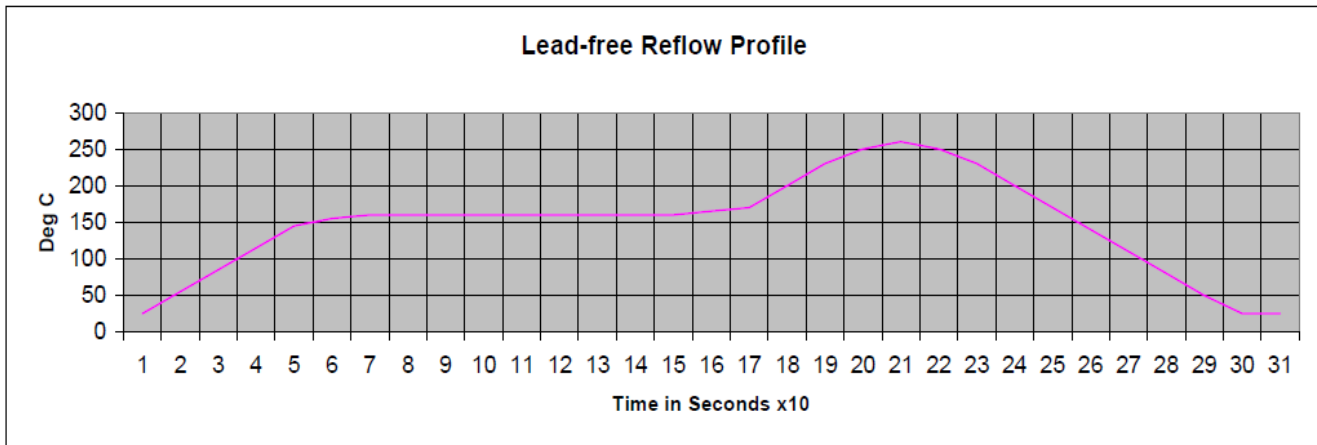
7.0 x 5.0 x 1.4mm

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



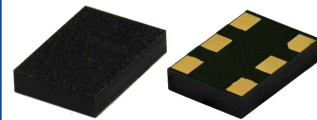
Parameters	Specifications
Average Ramp-up Rate	3°C /second max.
Pre-Heat Temp 150 – 200°C	60 – 180 second
Temp > 217°C	60 – 150 second
Time @ Peak Temperature	20 – 40 second
Peak Temperature	260°C + 0°C / -5°C
Ramp-down Rate	-6°C / second max.
Time 25°C to Peak Temp.	8 minutes max.

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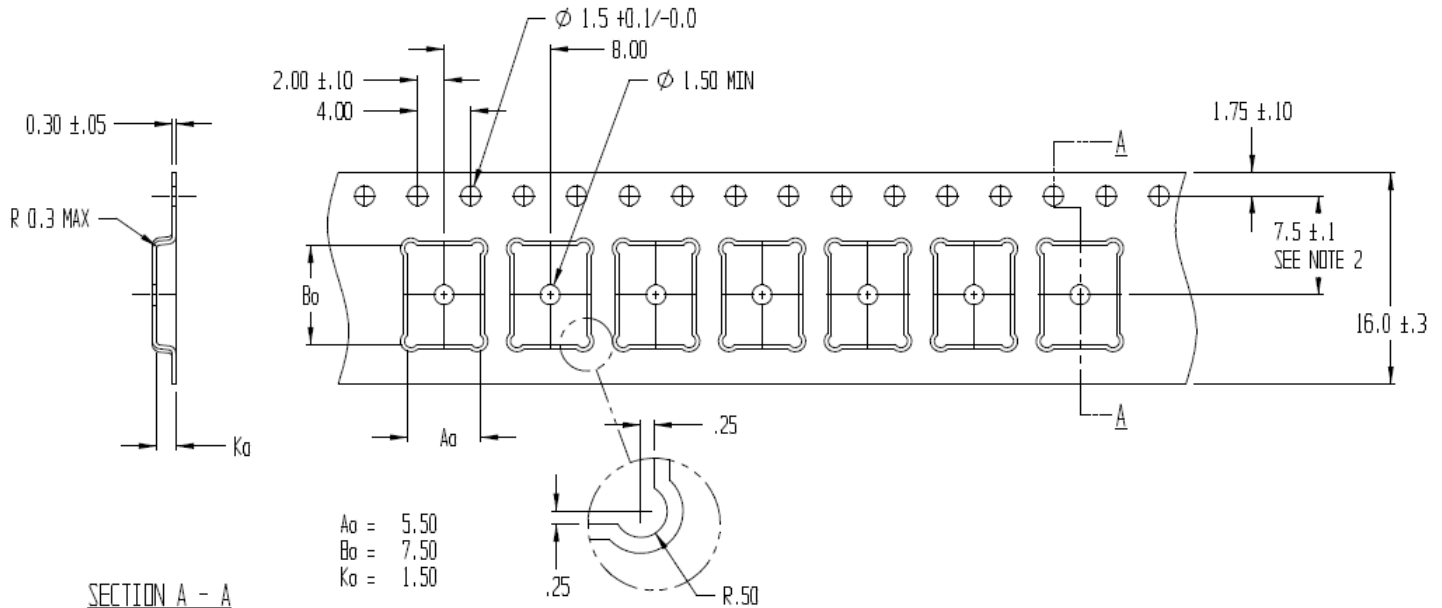


7.0 x 5.0 x 1.4mm

TAPE & REEL

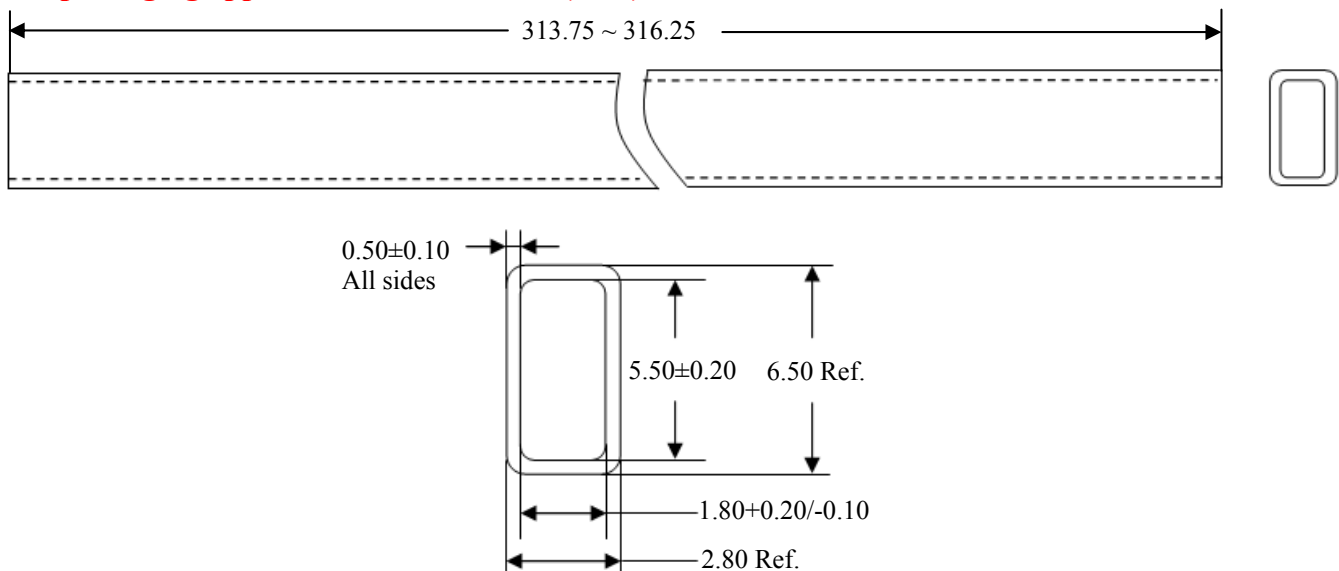
T = Tape & Reel, 1000pcs/reel. Reel Size = 7-inch Reel

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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