imall

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ASFLMX-25.000MHz-5ABH

ESD Sensitive



APPLICATIONS:

Communications

• FPGA

Backplane reference clock

• SERDES reference clock

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 5 x 3.2mm LGA package

KEY ELECTRICAL SPECIFICATIONS

Absolute Maximum Ratings

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⁾

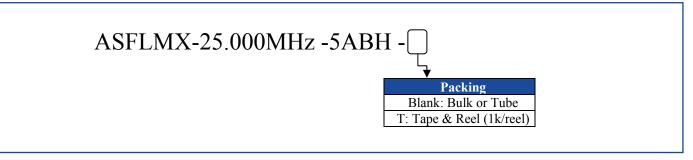
Parameters		Minimum	Typical	Maximum	Units	Notes	
Frequency			25.000		MHz		
Operating Temperature (T _A)		-40		+85	°C		
Overall Frequency Stability ⁽²⁾		-50		+50	ppm		
Supply Voltage (V _{DD})		+2.375		+3.63	V		
Supply Curren	Supply Current (I _{DD})				95	mA	
Output Logic Level		V _{OH}	$V_{DD} - 0.8$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

Notes:

1. Guaranteed after thermal equilibrium

Inclusive of initial accuracy, temperature drift, aging, shock, vibration from -40° C to $+85^{\circ}$ C. 2.

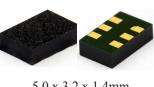
PART IDENTIFICATION







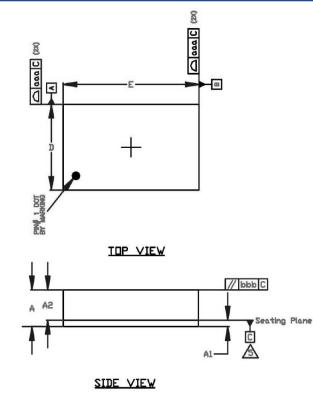
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5.0 x 3.2 x 1.4mm

ASFLMX-25.000MHz-5ABH

OUTLINE DIMENSION



Dimensional

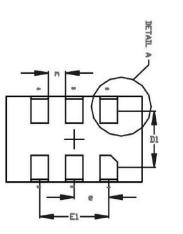
Tolerance

aaa

bbb

0.100

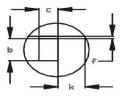
0.070



RoHS/RoHS II compliant

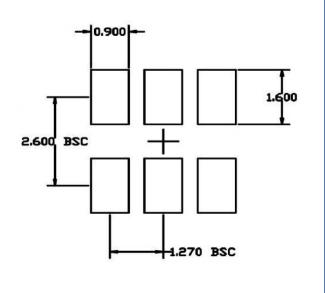
BOTTOM VIEW

(Pb



DETAIL A SCALE 5:1

Recommended Land Pattern



Ref.	Min.	Nom.	Max.		
Α	1.260	1.330	1.400		
A1	0.190	0.230	0.270		
A2	1.070	1.100	1.130		
D	3.100	3.200	3.300		
D1		2.100 BSC			
Ε	4.900	5.000	5.100		
E1	2.540 BSC				
b	0.850	0.900	0.950		
c	0.850	0.900	0.950		
e	1.270 BSC				
f	0.050	0.100	0.150		
k	0.860	0.910	0.960		
m	0.580	0.630	0.680		
n		6			

Dimensions: mm





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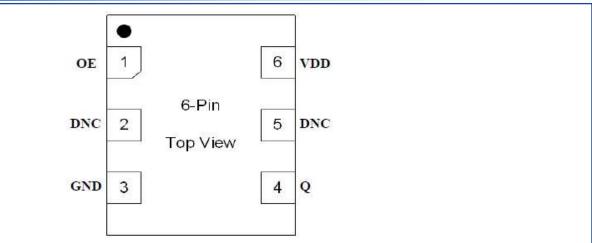
5.0 x 3.2 x 1.4mm

ASFLMX-25.000MHz-5ABH

(Pb) RoHS/RoHS II compliant

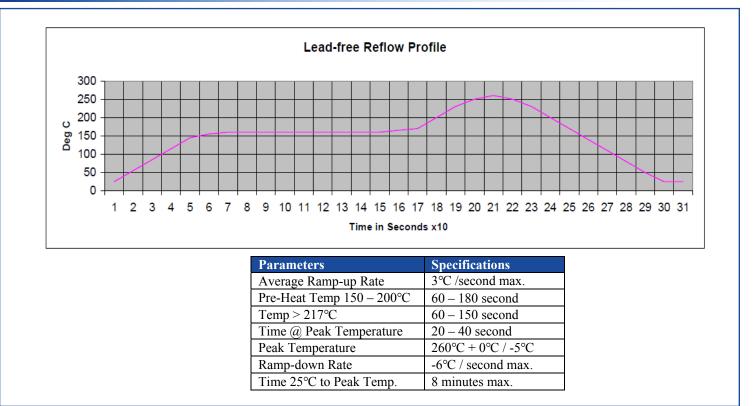
5.0 x 3.2 x 1.4mm

PIN CONFIGURATION



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

REFLOW PROFILE





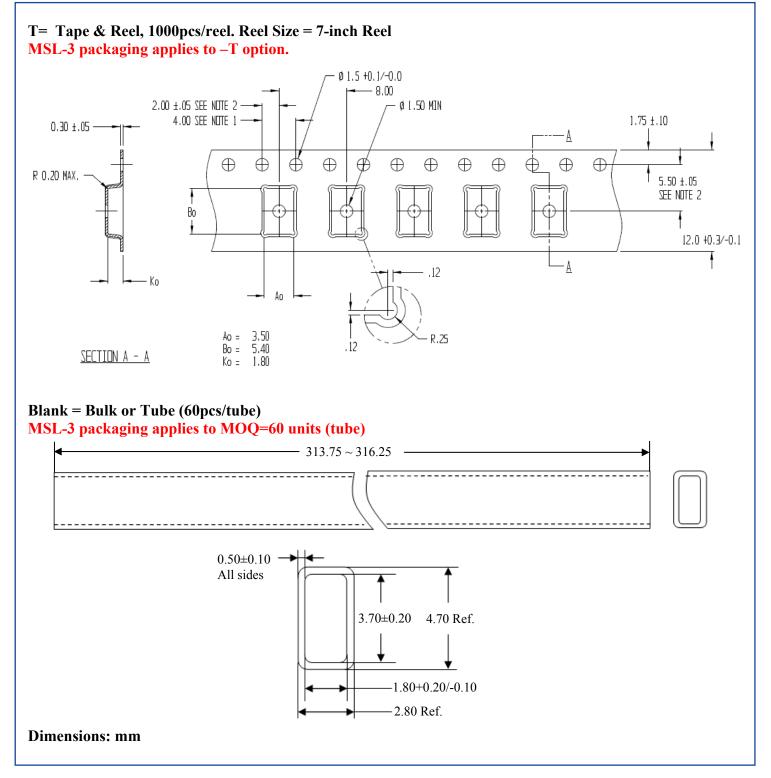
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ASFLMX-25.000MHz-5ABH

Pb RoHS/RoHS II compliant

5.0 x 3.2 x 1.4mm

TAPE & REEL



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