



**THE DATASHEET OF
ASFLM1-66.6666MHZ-LC-T**



PLASTIC PACKAGE ULTRA MINIATURE PURE SILICON™ CLOCK OSCILLATORS

ASFLM

Request Samples



Check Inventory



ESD Sensitive



5.0 x 3.2 x 0.85 mm

RoHS/RoHS II Compliant

MSL Level = 1

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
- Computers and Peripherals
- Portable Electronics
- Consumer Electronics
- Vibrant, Shock-Prone & Humid Environments for Industrial Equipment
- Demanding Military & Automotive Electronics

Key Electrical Specifications

Parameters	Min.	Typ.	Max.	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=∞ T=25°C
	40.0 to 79.9999MHz	8	15		
	80.0 to 124.9999MHz	9	15		
	125.0 to 150MHz	10	15		
Output Voltage:	V _{OH}	0.8*V _{dd}		V	15pF
	V _{OL}		0.2*V _{dd}		
Rise Time:		1.3	3.0	ns	15pF; T=25°C 20%/80%*VDD
Fall Time:		1.3	3.0		
Output Load:	15pF max / 10kΩ min.			pF	
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:	-5.0		+5.0	ppm	First year



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Absolute Maximum Ratings

Parameters	Min.	Max.	Unit	Conditions
Supply Voltage	-0.3	+4.0	V	
Differential Output Voltage (V_{OD})	-0.3	$V_{DD}+0.3$	V	
V_{OD} Magnitude Change (ΔV_{OD})		+150	°C	
Offset Voltage (V_{OS})	-55	+150	°C	
V_{OS} Magnitude Change (ΔV_{OS})		+260	°C	40sec max
ESD				
HBM		2,000		
MM		200		
CDM		500	V	

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Options and Part Identification (left blank if standard)

ASFLM - MHz - -

Supply Voltage
1: 3.0 ± 0.3V
2: 3.3 ± 0.3V
3: 2.5 ± 0.2V
4: 1.8 ± 0.15V
5: 2.8 ± 0.2V

Frequency in MHz
e.g. 14.3181 MHz (Maximum 4 digits after decimal)

Operating Temp.
Blank: 0°C ~ +70°C
E: -20°C ~ +70°C
L: -40°C ~ +85°C

Operating Freq. Stability
Blank: ±100ppm
R: ±25ppm
C: ±50ppm

Packaging
Blank: 72pcs / Tube
T: 1,000pcs / reel

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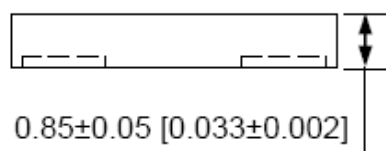
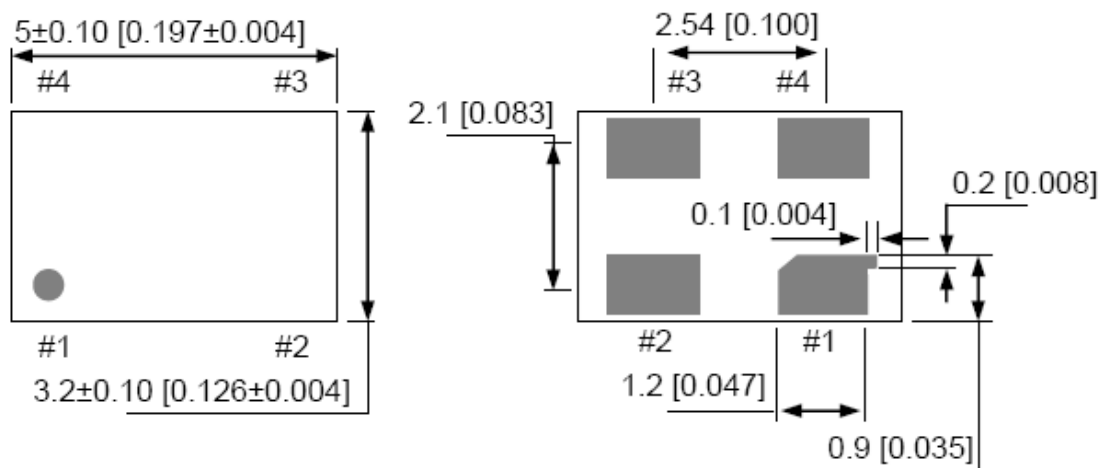


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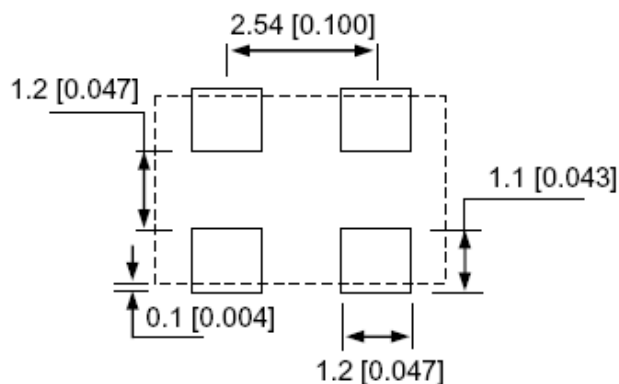
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Mechanical Dimensions



No.	Pin Terminal
1	Standby#
2	GND
3	Output
4	VDD

Recommended Land Pattern



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

Dimensions: mm (inches)



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Reflow Profile [JEDEC J-STD-020]

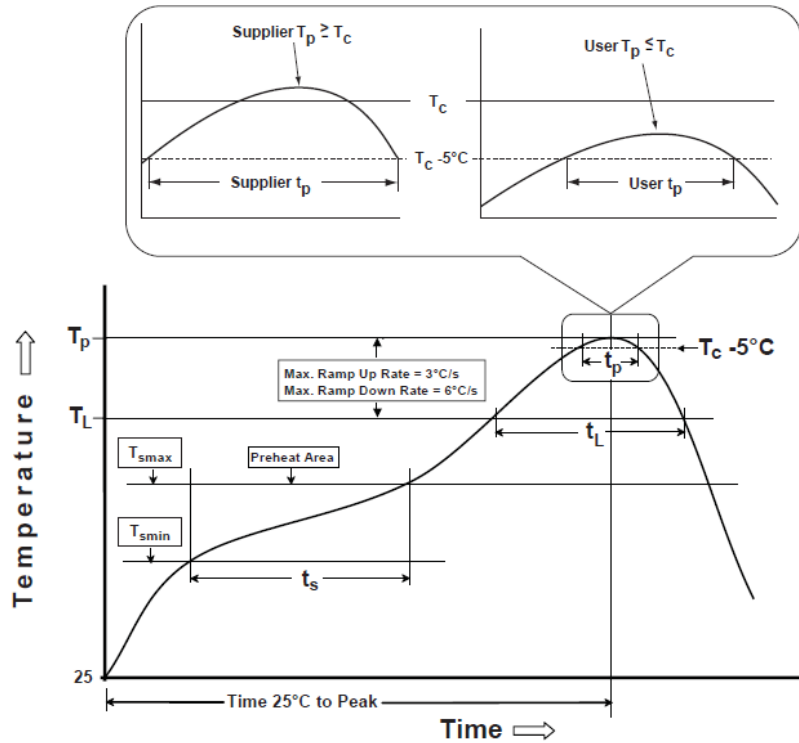


Table 1

SnPb Eutectic Process Classification Temperatures (T_c)

Package Thickness	Volume mm ³ <350	Volume mm ³ ≥350
<2.5 mm	235 °C	220 °C
≥2.5 mm	220 °C	220 °C

Table 2

Pb-Free Process Classification Temperatures (T_c)

Package Thickness	Volume mm ³ <350	Volume mm ³ 350-2000	Volume mm ³ >2000
<1.6 mm	260 °C	260 °C	260 °C
1.6 mm - 2.5 mm	260 °C	250 °C	245 °C
>2.5 mm	250 °C	245 °C	245 °C

Profile Feature	Sn-Pb Eutectic Assembly	Pb-Free Assembly
Preheat / soak		
Temperature minimum (T_{smin})	100°C	150°C
Temperature maximum (T_{smax})	150°C	200°C
Time (T_{smin} to T_{smax}) (t_s)	60 - 120 sec.	60 - 120 sec.
Average ramp-up rate (T_{smax} to T_p)	3°C/sec. max	3°C/sec. max
Liquidous temperature (T_L)	183°C	217°C
Time at liquidous (t_L)	60 - 150 sec.	60 - 150 sec.
Peak package body temperature (T_p)*	see Table 1	see Table 2
Time (t_p)** within 5°C of the specified classification temperature (T_c)	20 sec.	30 sec.
Ramp-down rate (T_p to T_{smax})	6°C/sec. max	6°C/sec. max
Time 25°C to peak temperature	6 min. max	8 min. max
Reflow cycles	2 max	2 max

*Tolerance for peak profile temperature (T_p) is defined as a supplier minimum and a user maximum.

**Tolerance for time at peak profile temperature (t_p) is defined as supplier minimum and a user maximum.



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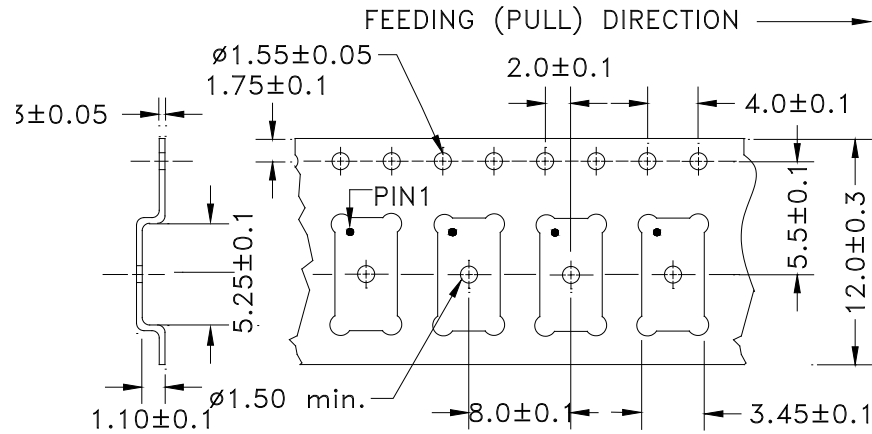


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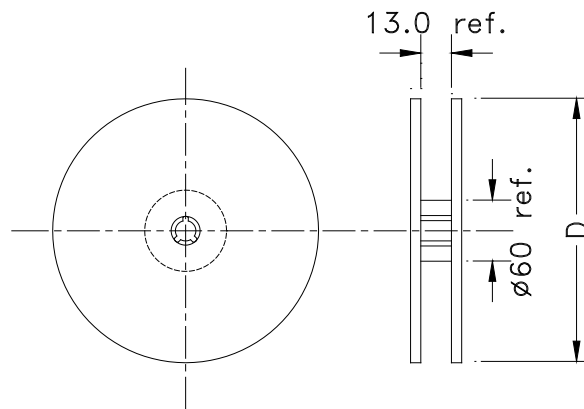
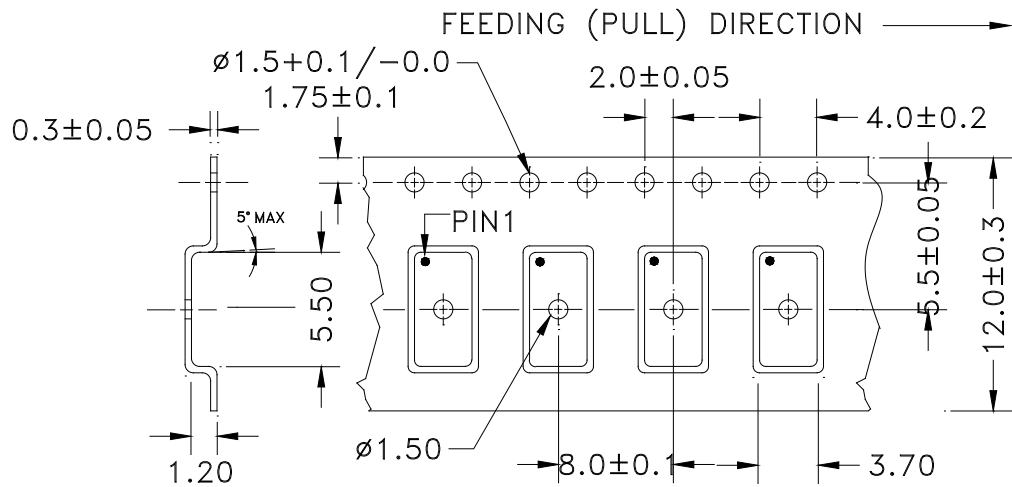
Packaging

T= 1,000pcs/reel (D=180mm)

Tape 1



Tape 2



Dimensions: mm



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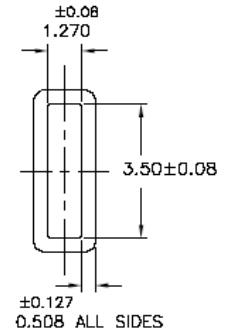
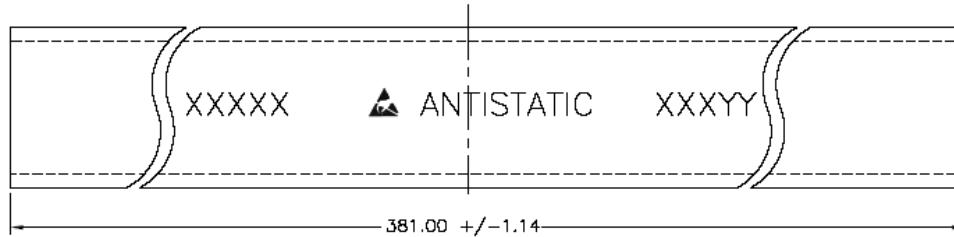


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Tube: 72 pcs/tube



Unit orientation in tube:



Dimensions: mm

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