

HCMOS/ TTL COMPATIBLE, J LEADED, PLASTIC MOLDED SMD CRYSTAL CLOCK OSCILLATOR

ASM SERIES

Pb in high temperature solder
(exempt per RoHS 2002/95/EC Annex (7)).

RoHS
Compliant



14.0 x 8.95 x 4.7 mm

The 14x9.8mm plastic package oscillator is not recommended for new designs. Please consider our reduced size ceramic or plastic molded SMD packages. Recommended series include ASL, ASV, ASVM, ASFL, ASFLM, ASE, ASEM. For 5.0V please use ASL series. Product Life Cycle: Declining, Planned EOL/Obsolescence pending 12/31/2011

FEATURES:

- Industry standard J-Leaded terminals.
- HCMOS and TTL compatible
- Extended temperature -40°C to 85°C option
- Plastic molded SMD
- Tristate Enable/ Disable.
- Suitable for RoHS compliant reflow

APPLICATIONS:

- Wide range of applications in dialing communication equipment, AV / OA equipment, Measuring equipment.

STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range:	1.0	-----	125.0	MHz	
Operating Temperature:	0	-----	+70	°C	See options
Storage Temperature:	-55	-----	+125	°C	
Overall Frequency Stability:	-100	-----	+100	ppm	See options
Supply Voltage (Vdd):	4.5	5.0	5.5	V	
Supply Current (I _{dd}):	-----	-----	20	mA	F ≤ 20 MHz
	-----	-----	40		F ≤ 70 MHz
	-----	-----	80		F ≤ 125 MHz
Output Load	-----	-----	50	pF	
	-----	-----	10	TTL	
Output Voltage:	V _{OH}	0.9*Vdd	-----	V	
	V _{OL}	-----	0.1*Vdd	V	
Tri-state function :	"1" (V _{IH} ≥ 2.2V) or Open: Oscillation "0" (V _{IL} < 0.8V) : Hi Z				
Aging:	-5.0	-----	+5.0	ppm	@+25°C First year
Symmetry:	40	-----	60	%	@1/2Vdd CMOS(See options)
Start-up Time :	-----	-----	10	ms	
Rise/Fall Time (Tr/Tf):	-----	-----	10	ns	
Period jitter one sigma :	-----	-----	25	ps	

OPTIONS & PART IDENTIFICATION:

ASM - MHz - - - -

Frequency in MHz
Please specify the frequency in MHz.
e.g. 14.31818MHz

Operating Temp. Range
D: -10°C to +60°C
E: -20°C to +70°C
F: -30°C to +70°C
N: -30°C to +85°C
L: -40°C to +85°C

Overall Freq. Stability
R: ±25ppm
K: ±30ppm
C: ±50ppm

Symmetry
Blank: 40/60% @1/2Vdd
S: 45/55% @1/2Vdd
S1: 45/55% @1.4Vdc

Packaging
Blank: Bulk
T: 1000pcs/reel

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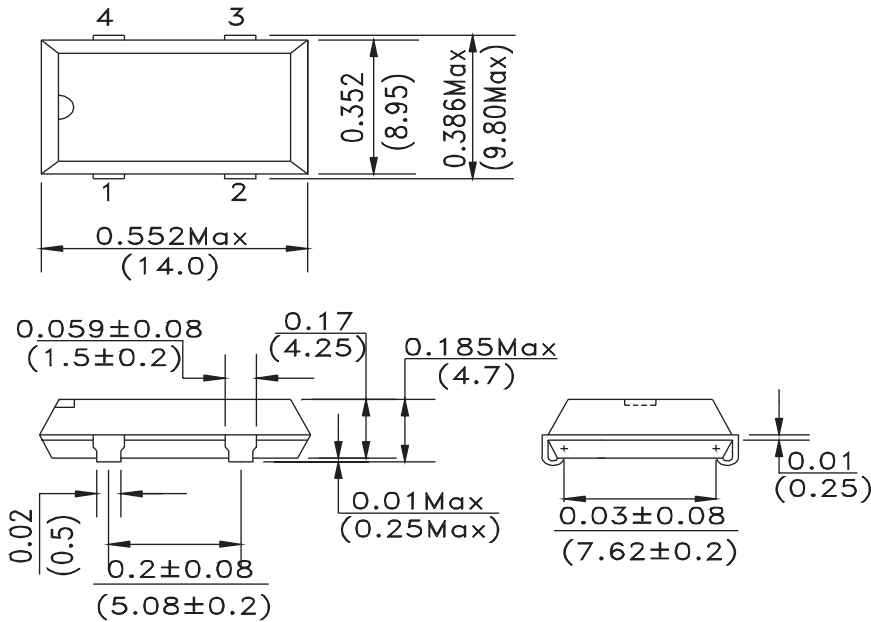
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(exempt per RoHS 2002/95/EC Annex (7)).

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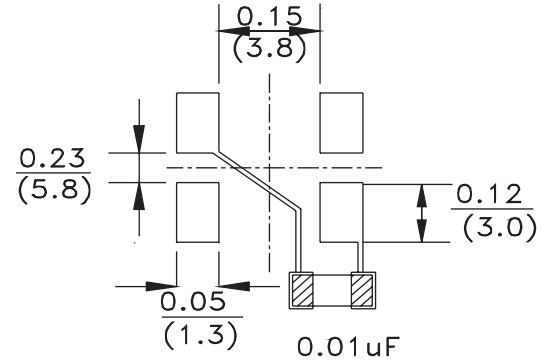
14.0 x 8.95 x 4.7 mm

OUTLINE DRAWING:



Dimension : Inch (mm)

Recommended land pattern

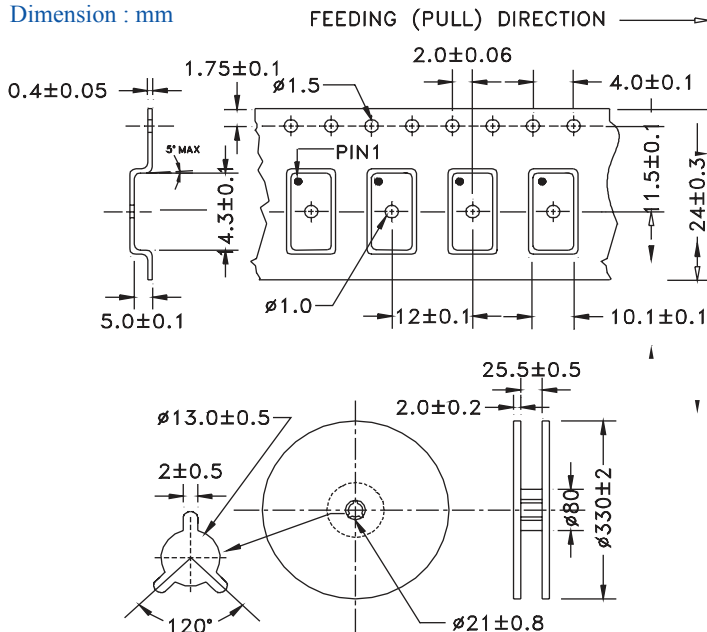


PIN	FUNCTION
1	Tristate
2	GND/Case
3	Output
4	Vdd

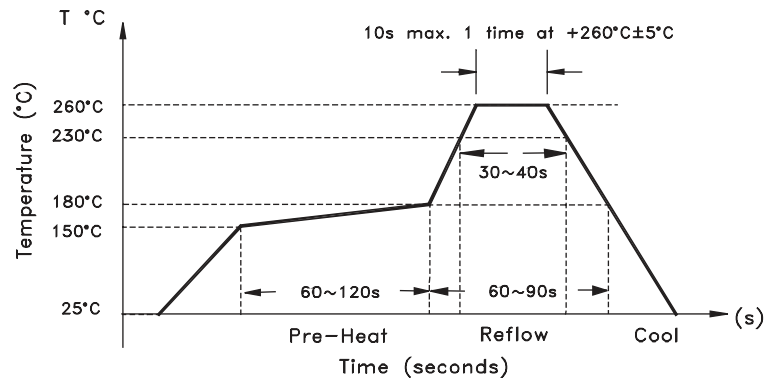
Note: Recommend using an approximately 0.01uF bypass capacitor between pin 2 and 4.

PACKAGING:

Dimension : mm



REFLOW PROFILE:



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