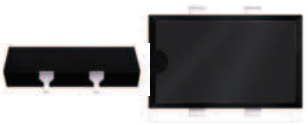
HCMOS/ TTL COMPATIBLE, J LEADED, PLASTIC MOLDED SMD CRYSTAL CLOCK OSCILLATOR

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" (VIH≥ 2.2V) or Open: Oscillation "0" (VIL<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

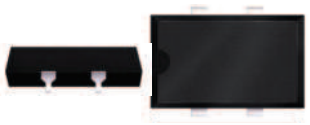
30332 Esperanza, Rancho Santa Margarita, California 92688
tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

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

ASM SERIES

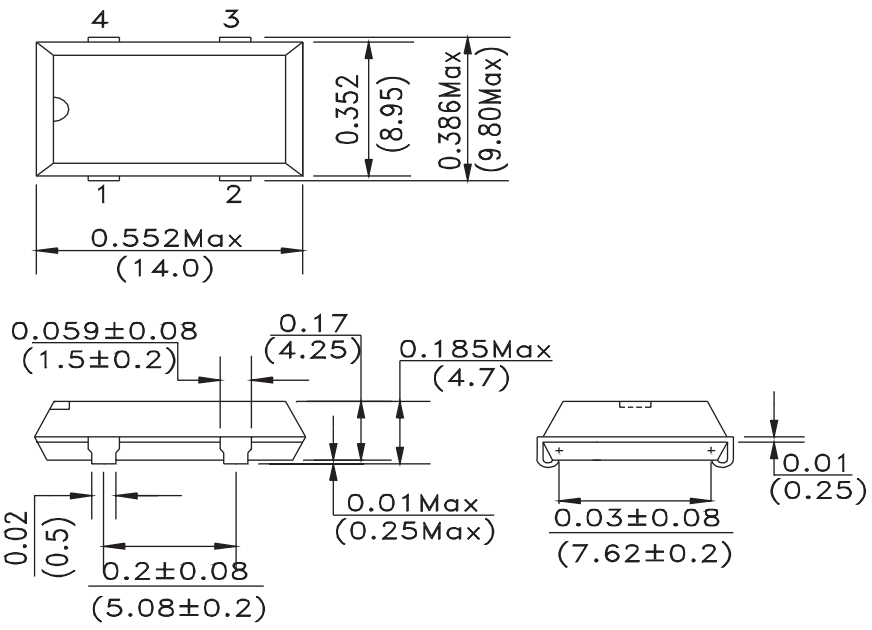
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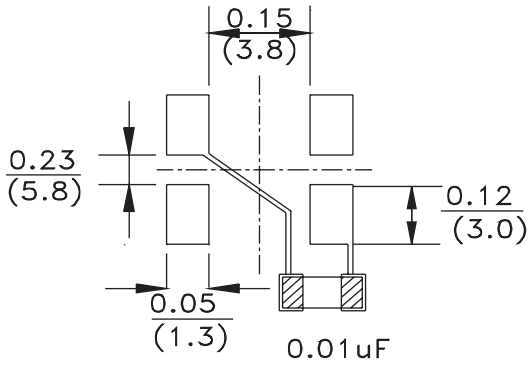


14.0 x 8.95 x 4.7 mm

OUTLINE DRAWING:



Recommended land pattern



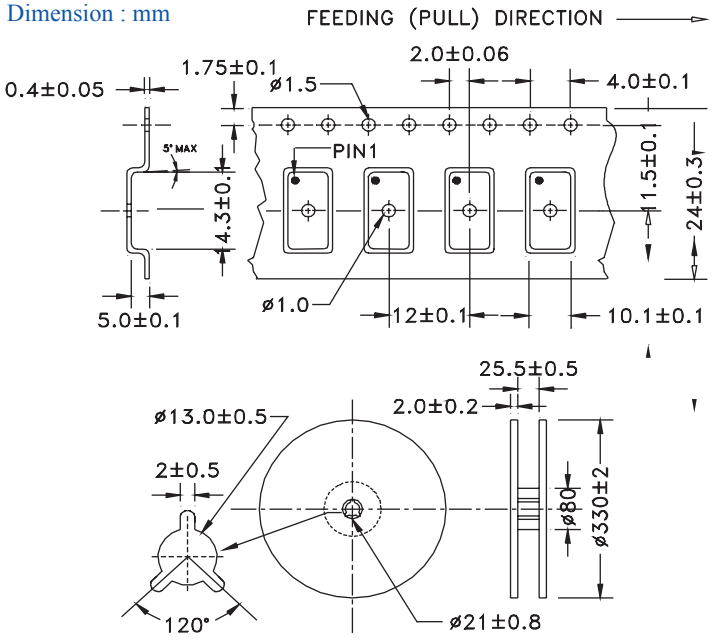
PIN	FUNCTION
1	Tristate
2	GND/Case
3	Output
4	Vdd

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

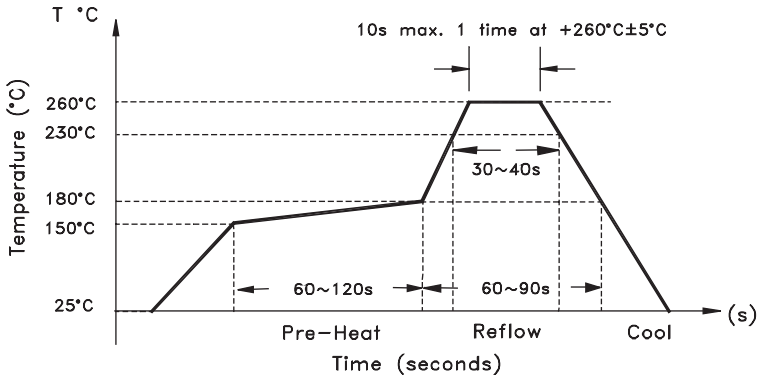
Dimension : Inch (mm)

PACKAGING:

Dimension : mm



REFLOW PROFILE:



ATTENTION: Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.

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