

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.

FEATURES:

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

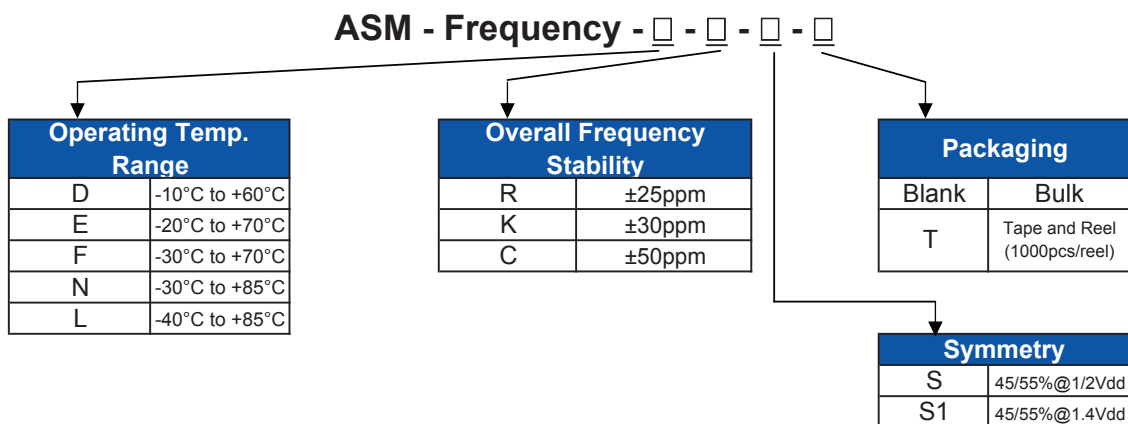
APPLICATIONS:

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

STANDARD SPECIFICATIONS:

PARAMETERS	
ABRACON P/N	ASM Series
Frequency range:	1 ~ 125 MHz
Operating temperature:	0° C to + 70° C (see options)
Storage temperature:	- 55° C to + 125° C
Overall frequency stability:	± 100 ppm max. (see options)
Supply voltage (Vdd):	5.0Vdc ± 10%
Input current:	20 mA max. for F ≤ 20 MHz 40 mA max. for F ≤ 70 MHz 80 mA max. for F ≤ 125 MHz
Symmetry:	40/60 % max. at 1/2Vdd CMOS (see option)
Rise and fall time (Tr/Tf):	10 ns max.
Output load:	10 TTL or 50 pFmax.
Output voltage:	VOH = 0.9*Vdd min. VOL = 0.1*Vdd max.
Tristate function :	"1" (VIH ≥ 2.2 V) or open: Oscillation "0" (VIL < 0.8 V) : Hi Z
Stat-up time:	10ms max.
Aging:	±5ppm/year max.
Period jitter (1 sigma):	25ps max.

OPTIONS & PART IDENTIFICATION:



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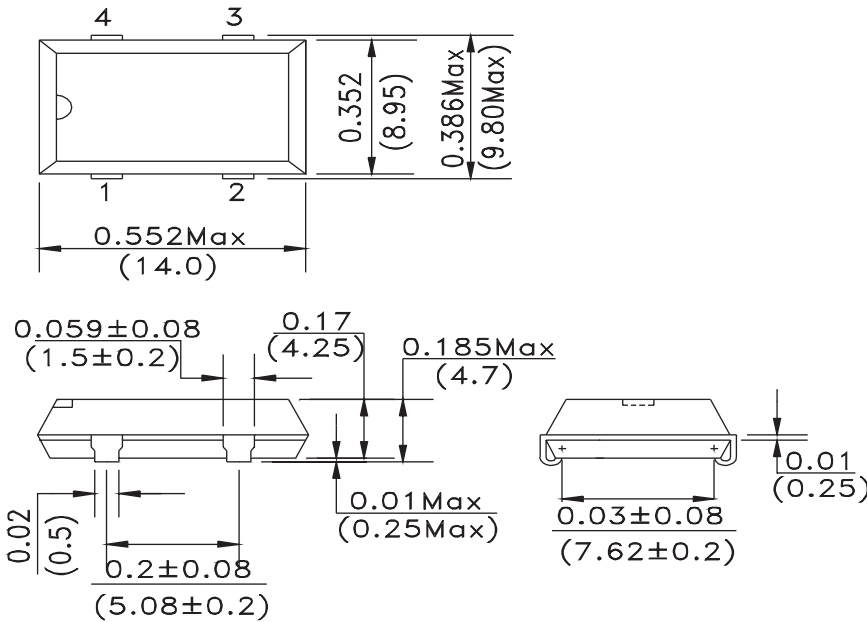
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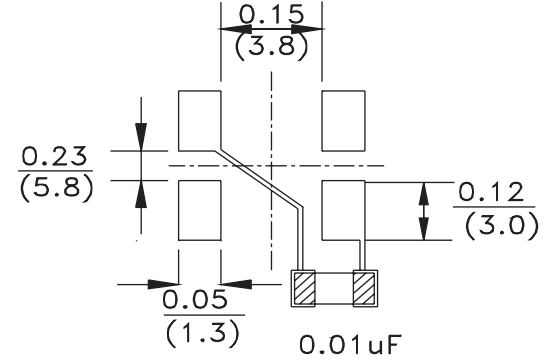
14.0 x 8.95 x 4.7 mm

OUTLINE DRAWING:



Dimension : Inch (mm)

Recommended land pattern

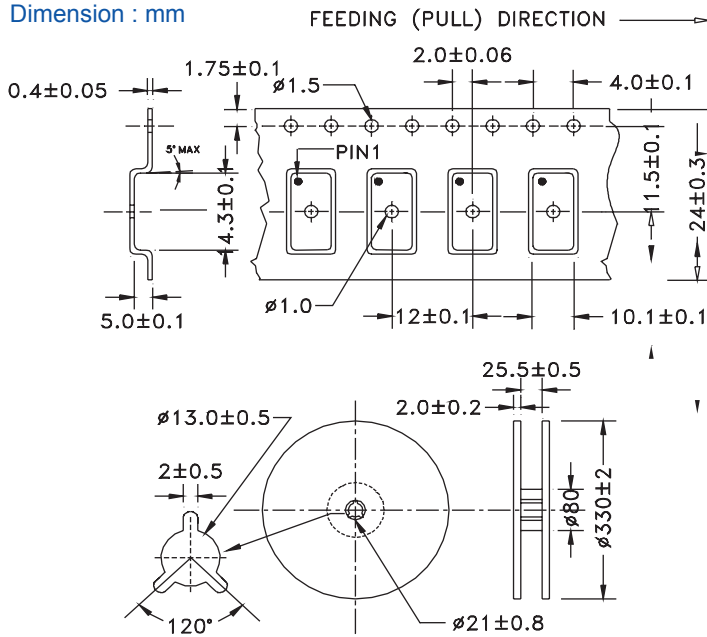


PIN	FUNCTION
1	Tristate
2	GND/Case
3	Output
4	Vdd

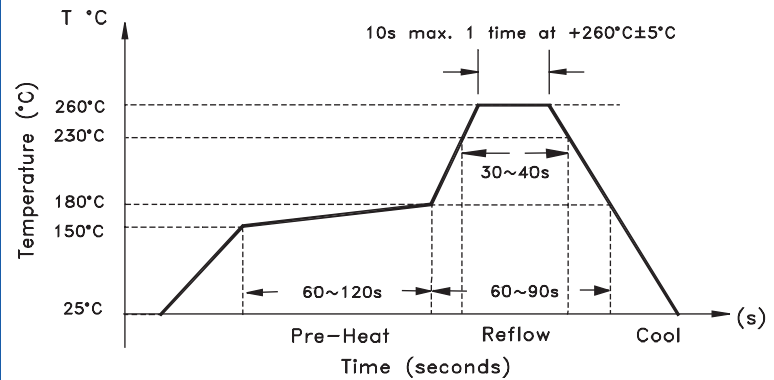
Note: Recommend using an approximately 0.01uF bypass capacitor between pin 2 and 4.

PACKAGING:

Dimension : mm

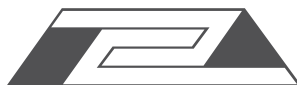


REFLOW PROFILE:



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.

ABRACON IS
ISO9001:2008
CERTIFIED



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