

3.3Vdc HCMOS/TTL SMD CRYSTAL CLOCK OSCILLATOR



ASV

7.0 x 5.0 x 1.8mm

ASV SERIES



RoHS
Compliant

FEATURES:

- Low profile, Leadless Chip Carrier (LCC)
- HCMOS/TTL Compatible, 3.3Vdc, 2.5Vdc, & 1.8Vdc options
- Reflow capable, Seam Sealed Package

APPLICATIONS:

- Clock signaling for μ Processors, PC Motherboards & Graphic Cards
- High output drive capability (up to 50pf)

STANDARD SPECIFICATIONS:

PARAMETERS

ABRACON P/N	ASV Series
Frequency Range	1.000 MHz to 150.000 MHz
Operating Temperature	-10° C to +70° C (see options)
Storage Temperature	-55° C to +125° C
Overall Frequency Stability	\pm 100 ppm max. (see options)
Supply Voltage (Vdd)	3.3 Vdc \pm 10% (see options)
Input Current	See Table 1
Symmetry	40/60 % max.@ 1/2Vdd (see options)
Rise time / Fall time (Tr/Tf)	See Table 1
Output Load	15pF (5TTL) (see options)
Output Voltage	VOH = 0.9 * Vdd min.; VOL = 0.4 Vdc max.
Start-up Time	10ms max.
Tristate Function	"1" (VIH \geq 0.7*Vdd) or open: Oscillation "0" (VIL < 0.3*Vdd) : Hi Z
Aging at 25°C/year	\pm 5ppm max.
Period jitter one sigma	\pm 25ps max.
Disable Current	15 μ A max.

Table 1

Frequency	I _{dd} (max)	Tr/Tf (max)
1.0 ~ 4.0MHz	10mA	10ns
4.01 ~ 32.0MHz	30mA	10ns
32.01~90.0MHz	45mA	10ns
90.01 ~ 150MHz	50mA	5ns

OPTIONS & PART IDENTIFICATION:

(Left blank if standard)

ASV - - Frequency - - - - - -

Supply Voltage	
Blank	3.3V
28	2.85V
25	2.5V
18	1.8V

Frequency	
XX.XXXX	MHz

Operating Temp.	
I	0°C to +50°C
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

Freq. Stability	
Y	\pm 10 ppm
J	\pm 20 ppm
R	\pm 25 ppm
K	\pm 30 ppm
H	\pm 35 ppm
C	\pm 50 ppm

Packaging	
Blank	Bulk
T	Tape & Reel (1k)
T5	Tape & Reel (500)

Output Load	
Blank	15pF
50	50pF

Symmetry	
S	45/55% @ 1/2Vdd
S1	45/55% @ 1.4Vdd



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ASV

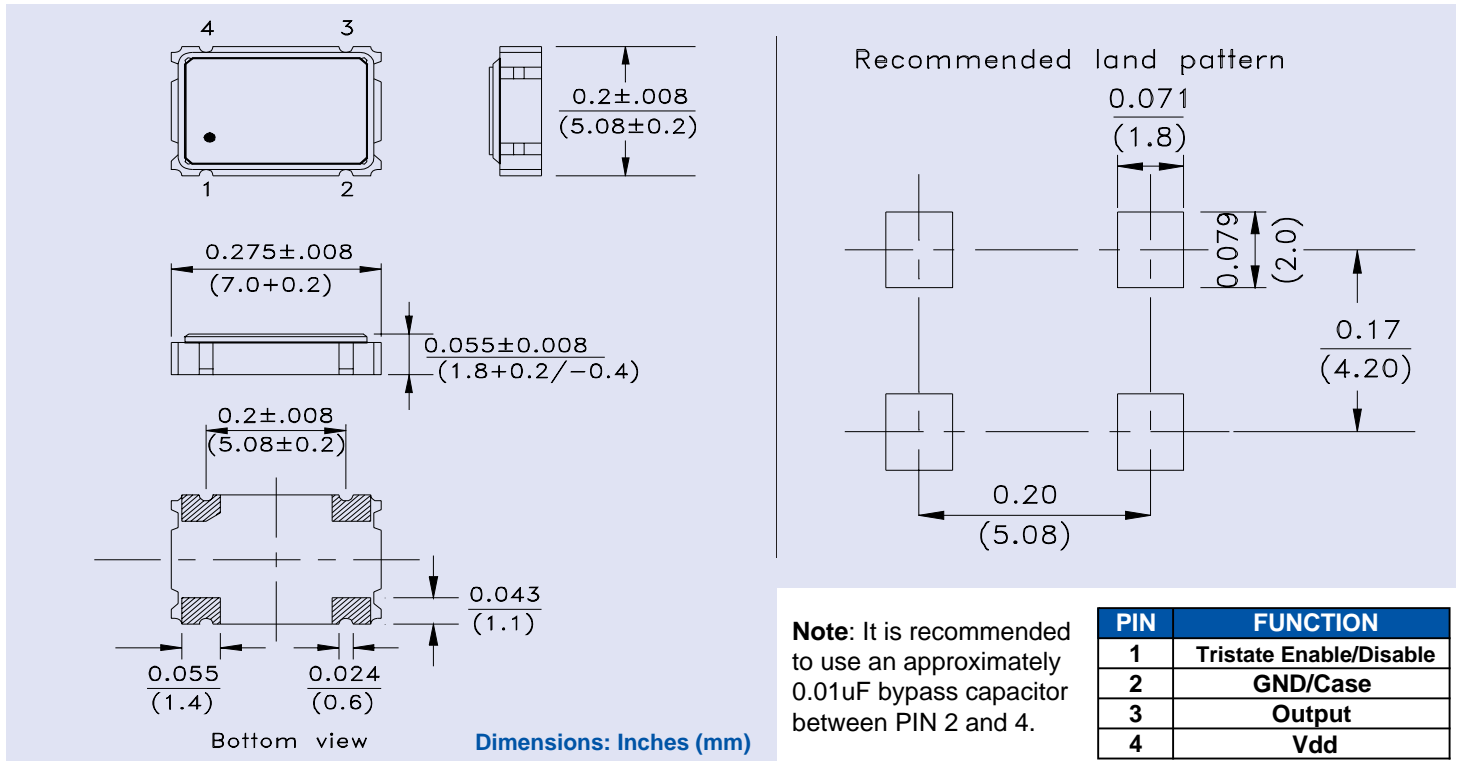
7.0 x 5.0 x 1.8mm

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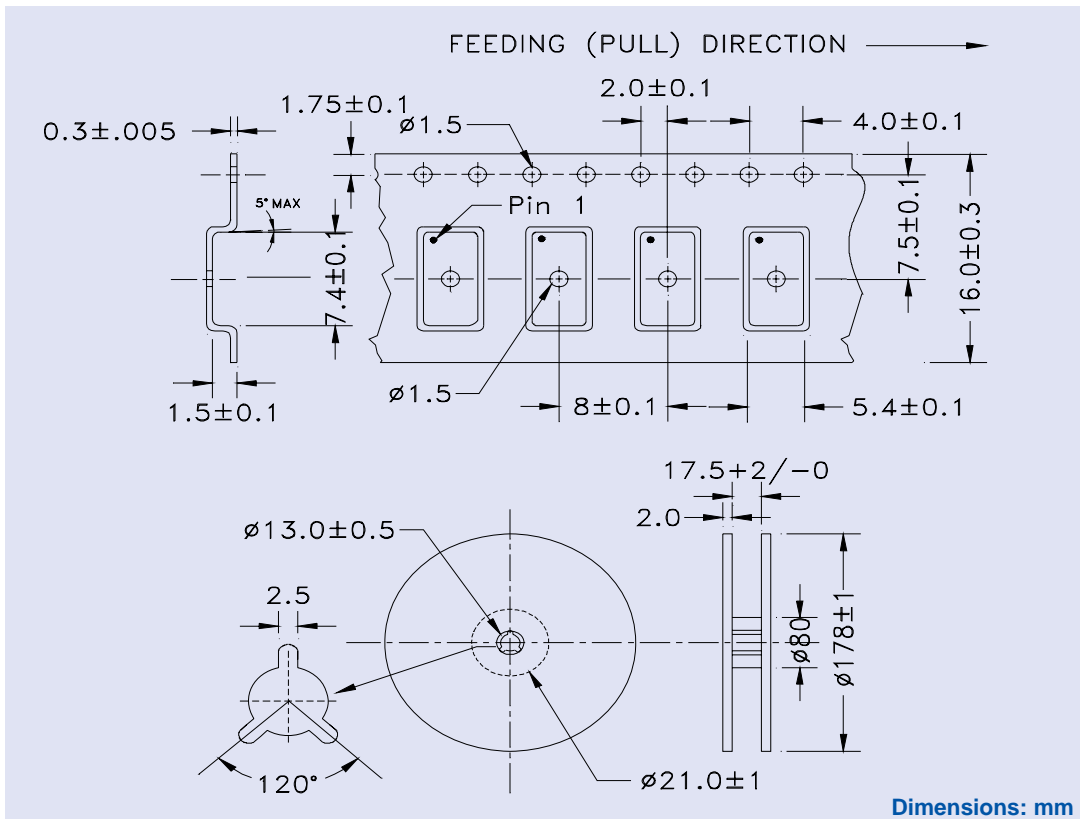


RoHS
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OUTLINE DRAWING:



TAPE & REEL:



ABRACON IS
ISO 9001 / QS 9000
CERTIFIED



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