3.3Vdc HCMOS/SMD CRYSTAL CLOCK OSCILLATOR

ASV SERIES





7.0 x 5.0 x 1.8mm

FEATURES:

- HCMOS/Compatible, 3.3Vdc, 2.5Vdc, & 1.8Vdc options
- · Suitable for RoHS reflow
- · Seam sealed package assures high reliability
- High output drive capability (up to 50pF)

> APPLICATIONS:

• Clock signaling for $\mu Processors,\, PC$ Motherboards & Graphic Cards

STANDARD SPECIFICATIONS:

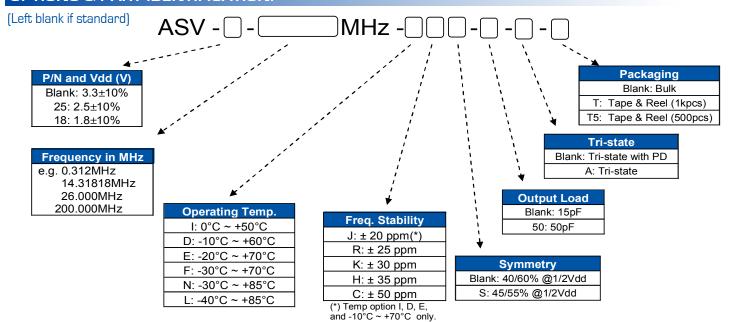
PARAMETERS	
ABRACON P/N	ASV Series
Frequency Range	0.312MHz to 165 MHz *
Operating Temperature	-10° C to + 70° C (see options)
Storage Temperature	- 55° C to + 125° C
Overall Frequency Stability	± 100 ppm max. (see options)
Supply Voltage (Vdd)	3.3 Vdc ± 10% (see options)
Input Current	See Table 1
Symmetry	40/60 % max.@ 1/2Vdd (see options)
Rise time / Fall time (Tr/Tf)	See Table 1
Output Load	15pF (10TTL) (see options)
Output Voltage	VOH = 0.9 * Vdd min.; VOL = 0.4 Vdc max.
Start-up Time	See Table 1
Tristate Function (see Tri-state option)	"1" (VIH >= 0.7*Vdd) or open: Oscillation "0" (VIL < 0.3*Vdd) : Hi Z
Disable Current (with Power Down)	10μA max.
Disable Current (without Power Down)	200μA (Option A)
Enable Time (with Power Down)	3.5ms Typ, 5ms max.
Enable Time (without Power Down)	100ns (Option A)
Disable Time (with Power Down)	100ns max.
Disable Time (without Power Down)	100ns max. (Option A)
Aging at 25°C (firstyear) :	± 5ppm max.
Period Jitter one sigma	See Table 1

Table 1 (Typical value is for only reference.)

Frequency (MHz)	ldd (Typ) (mA)	ldd (Max) (mA)	Tr/Tf (Typ) (ns)	Tr/Tf (max) (ns)	Start-up time (Typ) (ms)	Start-up time (Max) ms	Period Jitter RMS (Typical) ps
0.5~14.9	2.0	10.0	3.0	5.0	0.4	4.0	2.5
15.0~29.9	3.6	15.0	2.8	4.0	0.4	4.0	3.2
30.0~39.9	5.6	20.0	2.6	4.0	2.0	4.0	3.2
40.0~49.9	7.2	25.0	2.4	4.0	1.5	4.0	3.2
50.0~59.9	13.3	30.0	2.2	4.0	2.9	5.0	3.2
60.0~79.9	19.0	35.0	2.2	4.0	1.5	5.0	3.2
80.0~99.9	20.2	45.0	2.0	4.0	1.3	5.0	3.0
100.0~125.0	23.7	50.0	1.8	4.0	1.8	5.0	2.9
125.1~165.0	27.2	65.0	1.5	4.0	2.7	5.0	2.9

* Contact Abracon for higher frequencies

> OPTIONS & PART IDENTIFICATION:



ABRACON IS ISO9001:2008 CERTIFIED



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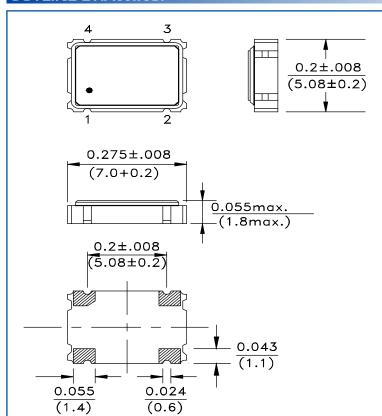
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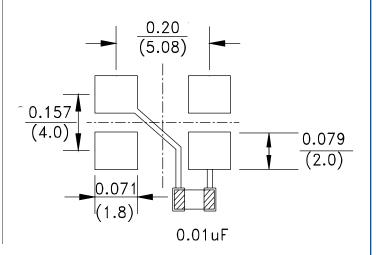




OUTLINE DRAWING:



Recommended land pattern

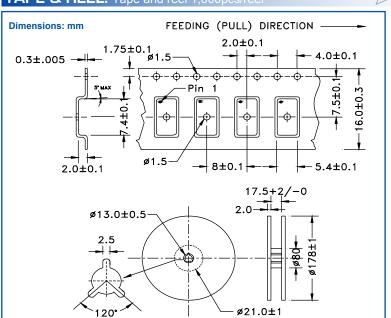


Note: It is recommended to use an approximately 0.01uF bypass capacitor between PIN 2 and 4.

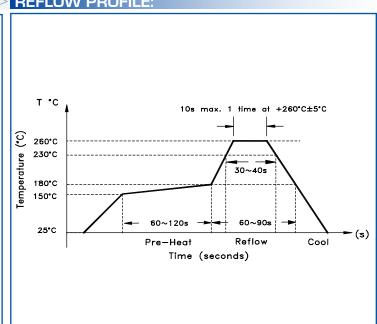
PIN	FUNCTION
1	Tristate Enable/Disable
2	GND/Case
3	Output
4	Vdd

Dimensions: Inches (mm)

TAPE & REEL: Tape and reel 1,000pcs/reel



REFLOW PROFILE:





Need a test socket for the ASV Series? To view compatible **PRECISION TEST & BURN-IN SOCKETS** for these parts, **click here.**

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