imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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HCMOS COMPATIBLE SURFACE MOUNT LOW PROFILE (1.4max) CRYSTAL CLOCK OSCILLATOR

• Seam sealed package

• Low stand-by current

assures high reliability



ASV2 SERIES

FEATURES:

- Low height 1.4 mm max.
- HCMOS compatible, 1.8V to 3.3VDC
- Tristate function
- Suitable for RoHS reflow
- \bullet Available for -40°C to 85°C extended temperature

STANDARD SPECIFICATIONS:

- > APPLICATIONS:
 - Clock signaling for μ Processors, PC Motherboards and Graphic Cards

RoHS

Compliant

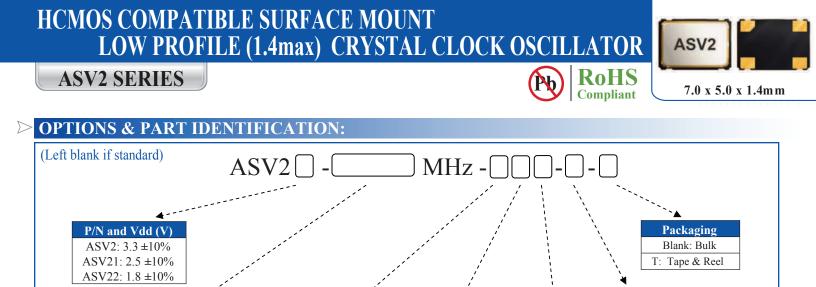
Wireless communications

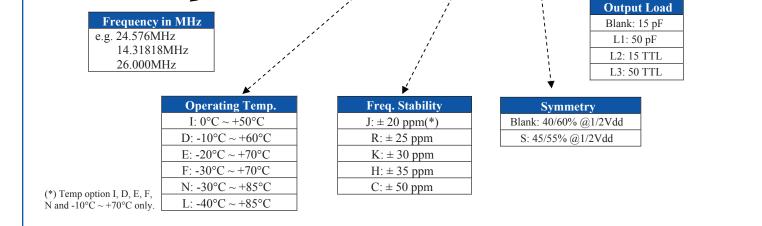
(Pb)

STANDARD SPECIFICATIONS:							
Parameters			Minimum	Typical	Maximum	Units	Notes
		1.8V	0.012		124.999		
Frequency Range 2.5V 3.3V		2.5V	0.012		133	MHz	
		0.012		133			
Operating Temperature			-10		+70	°C	See options
Storage Temperature			-55		+125	°C	
Overall Frequency Stability			-100		+100	ppm	See options
Supply Voltage (Vdd)			2.97	3.3	3.63	V	See options
	Frequency		3.3V	2.5V	1.8V	1	
Input Current	0.012MHz Fo < 0.048MHz		5	5	N/A	mA (max)	
	0.048MHz Fo < 1.5MHz		5	5	5		
	1.5MHz Fo < 20MHz		7	7	5		
	20MHz Fo < 50MHz		20	15	15		
	50MHz Fo < 70MHz		30	20	15		
	70MHz Fo < 125MHz		30	20	20		
	125MHz Fo 133MHz		40	30	N/A		
Symmetry (@ 1/2Vdd)			40	50	60	%	See options
	Frequency		3.3V	2.5V	1.8V	ns (max)	
Rise and Fall Time (Tr/Tf)**	0.012MHz Fo < 1.0MHz		200	200	N/A		
	1.0MHz Fo < 20MHz		10	10	10		Measured between 10% and 90% of Vdd
	20MHz Fo < 50MHz		6	6	6		
	50MHz Fo < 70MHz		3	3	3		with 15pF load
	70MHz Fo < 125MHz		3	3	3		
	125MHz Fo 133MHz		3	3	N/A		
Output Load					15	pF	CMOS (5TTL compatible)
()utput Voltage		VOH	0.9*Vdd			V	
		VOL			0.1*Vdd	V	
Start-up Time					8.0	ms	
		Vdd	VIH		VIL		"1" (VIH \ge 0.7*Vdd)
Tri-state function (Stand-by)		1.8	1.26		0.5	V	or Open: Oscillation
		2.5	1.75		0.5		"0" (VIH < 0.3*Vdd)
		3.3	2.0		0.5		: Hi Z
Disable current					10	uA	
Absolute Period jitter (Reference only. Please contact Abracon for each frequencies.):					40.0	ps	
Aging			-5.0		+5.0	ppm	@+25°C First year

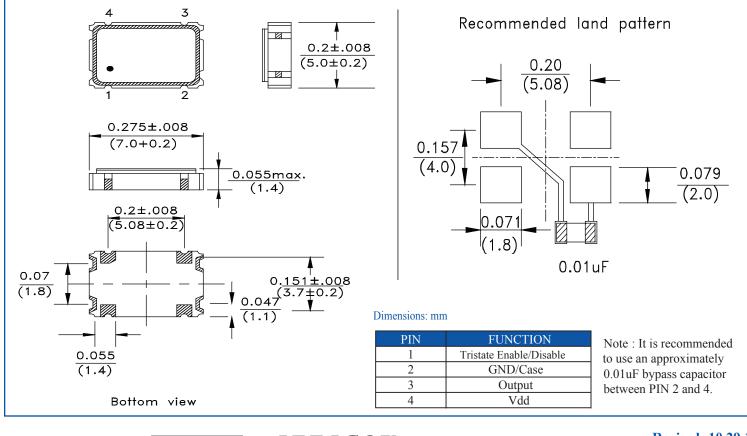


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OUTLINE DRAWING:



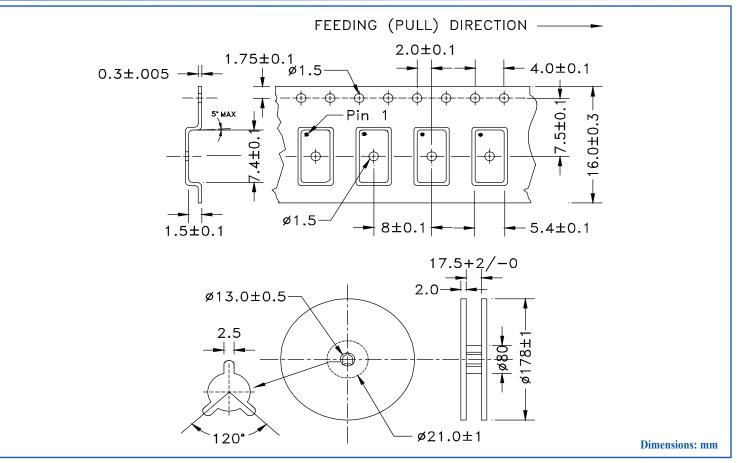
ABRACON IS ISO9001:2008 CERTIFIED



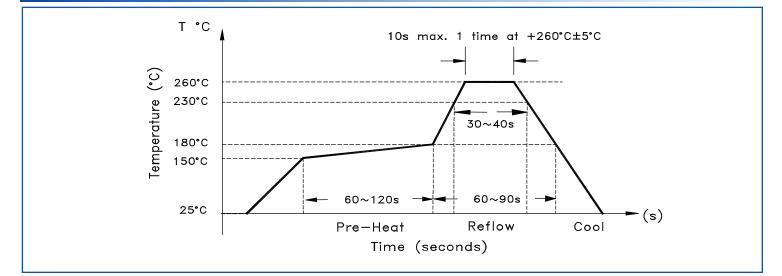
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REFLOW PROFILE:



Need a test socket for the ASV2 Series? To view compatible **PRECISION TEST & BURN-IN SOCKETS** for these parts, <u>click here</u>. P/N AXS-7050-04-17 **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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ASV2

7.0 x 5.0 x 1.4mm

Rohs

Compliant

Pb