







7.0 x 5.08 x 1.8 mm

Moisture Sensitivity Level (MSL) – This product is Hermetically Sealed and not Moisture Sensitive - MSL = N/A: Not Applicable

#### **FEATURES:**

- HCMOS, 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 μProcessors, PC Motherboards & Graphic Cards

### STANDARD SPECIFICATIONS:

Parameters		Minimum	Typical	Maximum	Units	Notes
Frequency Range		0.312		200	MHz	
Operating Temperature		-10		+70	°C	See options
Storage Temperature	e	-55		+125	°C	
Overall Frequency S	Stability	-100		+100	ppm	See options
Supply Voltage (Vdd)		+2.97	3.3	+3.63	V	See options
			2.0	10.0		$0.312 \sim 14.9 \text{ MHz}$
			3.6	15.0		15.0 ~ 29.9 MHz
			5.6	20.0		30.0 ~ 39.9 MHz
			7.2	25.0		40.0 ~ 49.9 MHz
Supply Current (Idd	Supply Current (Idd)		13.3	30.0	mA	50.0 ~ 59.9 MHz
			19.0	35.0		60.0 ~ 79.9MHz
			20.2	45.0		80.0 ~ 99.9 MHz
			23.7	50.0		100.0 ~ 125.0MHz
			27.2	65.0		125.1 ~ 165 MHz
Symmetry @ 1/2Vdd		40	50	60	%	See options
			3.0	5.0		0.312 ~ 14.9 MHz
			2.8	4.0		15.0 ~ 29.9 MHz
			2.6	4.0		30.0 ~ 39.9 MHz
			2.4	4.0		40.0 ~ 49.9 MHz
Rise and Fall Time (	(Tr/Tf)		2.2	4.0	ns	50.0 ~ 59.9 MHz
			2.2	4.0		60.0 ~ 79.9MHz
			2.0	4.0		80.0 ~ 99.9 MHz
			1.8	4.0	]	100.0 ~ 125.0MHz
			1.5	4.0		125.1 ~ 165 MHz
Output Load				15	рF	See options
Output Voltage	$ m V_{OH}$	0.9 x Vdd			V	
	$V_{ m OL}$			0.4	V	













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### (Continued)

Parameters	Minimum	Typical	Maximum	Units	Notes
		0.4	4.0		$0.312 \sim 14.9 \text{ MHz}$
		0.4	4.0		15.0 ~ 29.9 MHz
		2.0	4.0		$30.0\sim39.9~MHz$
		1.5	4.0		40.0 ~ 49.9 MHz
Start-up Time		2.9	5.0	ms	50.0 ~ 59.9 MHz
		1.5	5.0		$60.0\sim79.9MHz$
		1.3	5.0	]	80.0 ~ 99.9 MHz
		1.8	5.0		$100.0 \sim 125.0 MHz$
		2.7	5.0		125.1 ~ 165 MHz
Tri-state function		"1" (VIH\ge 0.7*Vdd) or Open: Oscillation "0" (VIL<0.3*Vdd): Hi Z			
		2.5		ps	0.312 ~ 14.9 MHz
		3.2			15.0 ~ 29.9 MHz
		3.2			$30.0\sim39.9~MHz$
		3.2			$40.0\sim49.9~MHz$
Period Jitter One Sigma (RMS):		3.2			50.0 ~ 59.9 MHz
		3.2			60.0 ~ 79.9MHz
		3.0			$80.0 \sim 99.9 \text{ MHz}$
		2.9			100.0 ~ 125.0MHz
		2.9			125.1 ~ 165 MHz
Aging at 25°C (first year)	-5		+5	ppm	
Disable Current			10	uA	
Enable Time		3.5	5	ms	
Disable Time			100	ns	







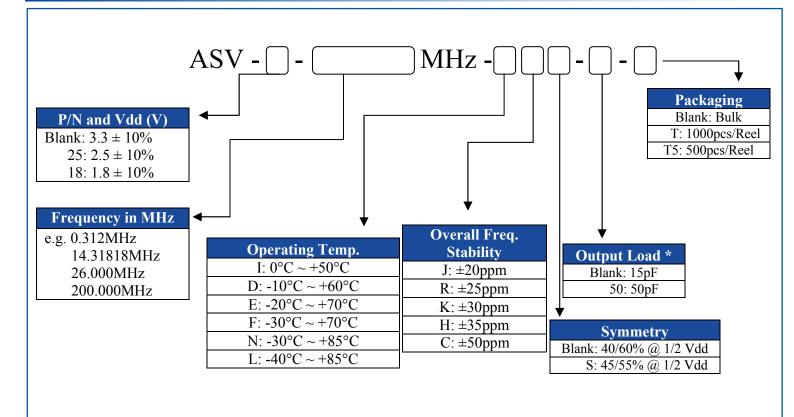






7.0 x 5.08 x 1.8 mm

## **○ OPTIONS & PART IDENTIFICATION:** (Left blank if standard)



Note \*: See Table below for the Output Load option availability

Output I and	Supply Voltage				
Output Load	Vdd=3.3V	Vdd=2.5V	Vdd=1.8V		
15pF max		$\sqrt{}$	$\sqrt{}$		
50pF max	$\sqrt{}$	Available for Freq. ≤ 70MHz	Not Available		







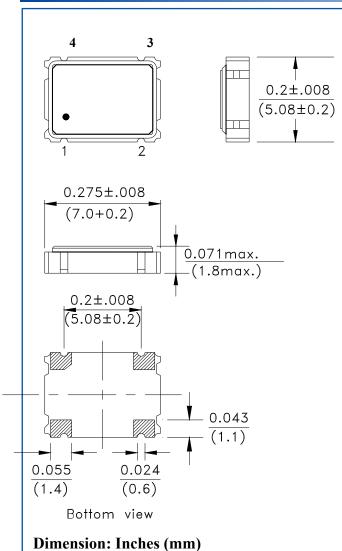




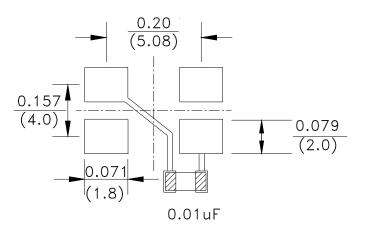


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### **OUTLINE DIMENSION:**



Recommended land pattern



Pin	Function
1	Tri-State Enable/Disable
2	GND/Case
3	Output
4	Vdd







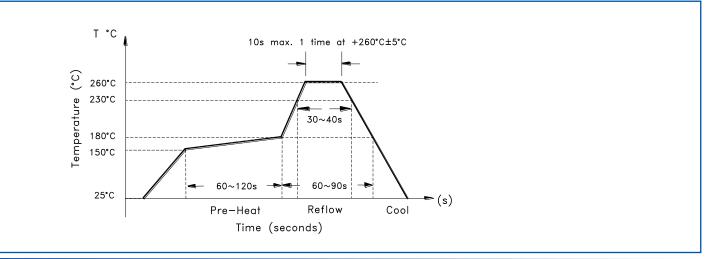






7.0 x 5.08 x 1.8 mm

### **REFLOW PROFILE:**



#### **TAPE & REEL:**

T: 1000pcs/reel
T5: 500pcs/reel

0.3±.005

1.75±0.1

2.0±0.1

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Pin 1

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