HCMOS SURFACE-MOUNT CRYSTAL CLOCK OSCILLATOR



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





2.0 x 1.6 x 0.7m m

FEATURES:

- Ultra miniature package, 2.0 x 1.6 x 0.7mm
- Tri-state function
- Suitable for high density SMT
- Suitable for RoHS compliant reflow process
- Seam sealed package assures high reliability

> APPLICATIONS:

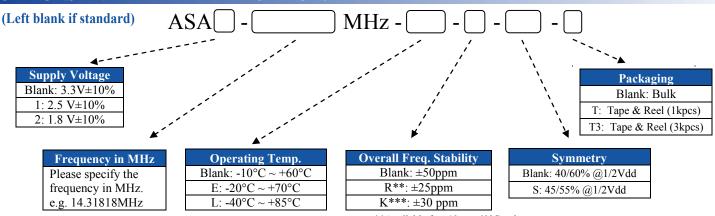
- CCD clock for VTR camera
- Computers and peripherals
- Portable electronics
- Mobile communication, PDA

> STANDARD SPECIFICATIONS:

Parameters		Minimum	Typical	Maximum	Units	Notes
Frequency Range		1.0		80	MHz	
Operating Temperature		-10		+60	°C	See options
Storage Temperature		-40		+85	°C	
Overall Frequency Stability*		-50		+50	ppm	See options
Supply Voltage (Vdd)		2.97	3.3	3.66	V	Standard
		2.25	2.5	2.75		Option 1 (CMOS)
		1.62	1.8	1.98		Option 2 (CMOS)
Supply Current (I _{dd}) into 15pF Load	Vdd = 3.3 V		2.0	5.0	mA	$1 \text{MHz} \le F \le 20 \text{ MHz}$
			4.0	10.0		$20 \text{ MHz} < F \le 50 \text{ MHz}$
			7.0	15.0		$50 \text{ MHz} < F \le 80 \text{ MHz}$
	Vdd = 2.5 V		2.0	5.0		$1 \text{MHz} \le F \le 20 \text{ MHz}$
			3.0	10.0		$20 \text{ MHz} < F \le 50 \text{ MHz}$
			5.0	10.0		50 MHz < F ≤ 80 MHz
	Vdd = 1.8 V		1.5	5.0		$1 \text{MHz} \leq F \leq 20 \text{ MHz}$
			2.5	5.0		$20 \text{ MHz} < F \le 50 \text{ MHz}$
			4.0	10.0		50 MHz < F ≤ 80 MHz
Output Load				15	pF	
				2	TTL	
Output Voltage	V_{OH}	0.9*Vdd			V	CMOS
	V_{OL}			0.1*Vdd		CMOS
	V_{OH}	2.4				TTL
	V_{OL}			0.4		TTL
Tri-state function		"1" (VIH≥0.7*Vdd) or Open : Oscillation "0" (VIH<0.3*Vdd) : Hi Z				
Aging		-3.0		+3.0	ppm	@+25°C First year
Symmetry @1/2Vdd		40	50	60	%	Standard
		45	50	55		Option S
Start-up Time				10.0	ms	
Rise/Fall Time (Tr/Tf)				10.0	ns	

^{*}Overall frequency stability includes initial frequency tolerance @+25°C and stability over the operating temperature.

> OPTIONS AND PART IDENTIFICATION:



**Available for -10 to +60°C only

***Available for -10 to +60°C, option E only

Contact Abracon for tighter frequency stability options

ABRACON IS ISO9001:2008 CERTIFIED



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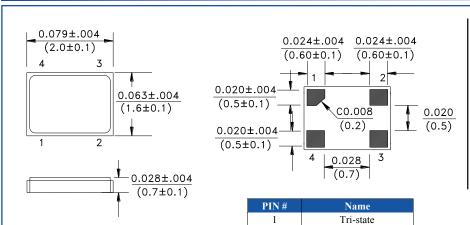
ASA SERIES





2.0 x 1.6 x 0.7mm

OUTLINE DRAWING:



2

3

4

GND

Output

Vdd

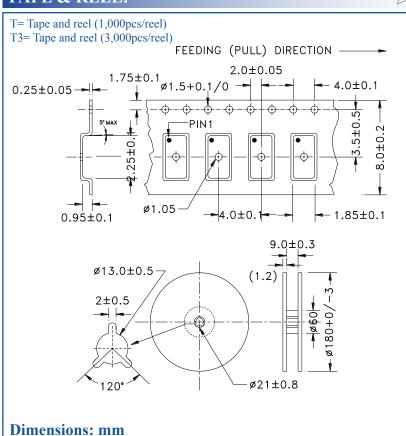
0.030 0.022 0.030 (0.75) (0.55) (0.75)

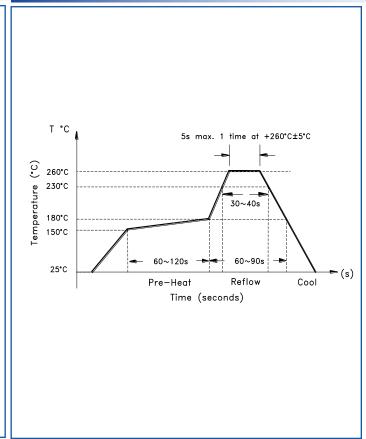
Recommended land pattern

Dimensions: inches (mm)

► TAPE & REEL:

REFLOW PROFILE:







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

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