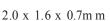
HCMOS SURFACE-MOUNT CRYSTAL CLOCK OSCILLATOR





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





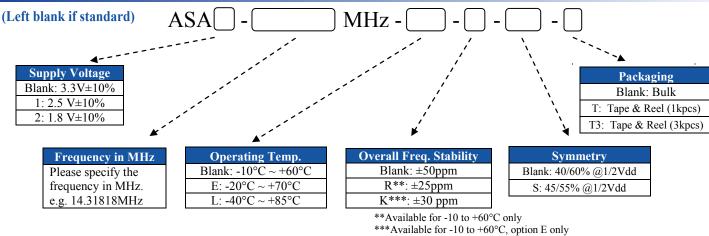
FEATURES:

- Ultra miniature package,
- 2.0 x 1.6 x 0.7mm
- Tri-state function
- · Suitable for RoHS compliant reflow process
- · Seam sealed package assures
- Suitable for high density SMT **STANDARD SPECIFICATIONS:**
- high reliability
- > APPLICATIONS: • CCD clock for VTR camera
 - Computers and peripherals
 - Portable electronics
 - Mobile communication, PDA

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})	Vdd = 3.3 V		2.0	5.0	mA	1MHz ≤ F ≤ 20 MHz
			4.0	10.0		20 MHz < F ≤ 50 MHz
			7.0	15.0		50 MHz < F ≤ 80 MHz
	Vdd = 2.5 V		2.0	5.0		$1 \text{MHz} \le \text{F} \le 20 \text{ MHz}$
			3.0	10.0		20 MHz < F ≤ 50 MHz
			5.0	10.0		50 MHz < F ≤ 80 MHz
	Vdd = 1.8 V		1.5	5.0		1MHz ≤ F ≤ 20 MHz
			2.5	5.0		20 MHz < F ≤ 50 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) : Oscillation				Pin 1 must be pulled
		"0" (VIH<0.3*Vdd) : Hi Z				"high" for oscillation
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:







Visitwww.abracon.com for Terms & Conditions of Sale Revised: 03.12.12 30332 Esperanza, Rancho Santa Margarita, California 92688 tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

HCMOS SURFACE-MOUNT CRYSTAL CLOCK OSCILLATOR

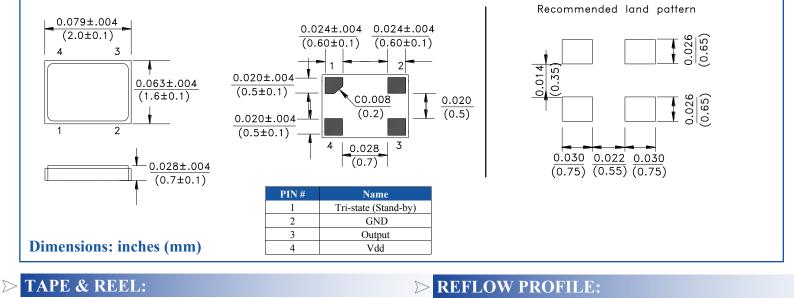


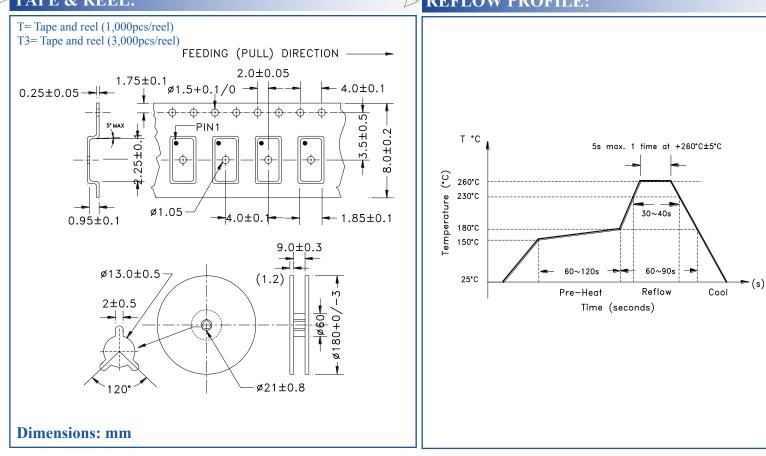
ASA SERIES



2.0 x 1.6 x 0.7mm

OUTLINE DRAWING:







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

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.





Visitwww.abracon.com for Terms & Conditions of Sale Revised: 03.12.12 30332 Esperanza, Rancho Santa Margarita, California 92688 tel 949-546-8000 | fax 949-546-8001 | www.abracon.com