

# FULL-SIZE DIP 32.768kHz CRYSTAL CLOCK OSCILLATOR



20.2 x 12.6 x 8.0 mm

ACOW



RoHS/RoHS II compliant

Moisture Sensitivity Level (MSL) – Through-hole part, MSL doesn't apply.

## FEATURES:

- RoHS compliant
- CMOS/TTL output
- 32.768 kHz
- Tri-state function

## APPLICATIONS:

- Computers, Modems, Microprocessors
- Communication, Test equipment

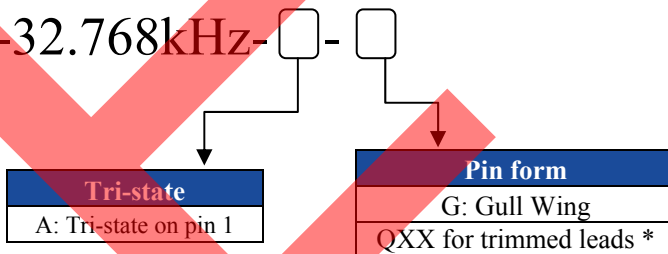
## STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency		32.768		kHz	
Operating Temperature	0		+70	°C	See options
Storage Temperature	-55		+125	°C	
Overall Frequency Stability	-100		+100	ppm	See options
Supply Voltage (Vdd)	4.75	5.0	5.25	V	
Input Current			15	mA	
Symmetry	40		60	%	@ 1/2Vdd
Rise and Fall Time (Tr/Tf)			250	ns	@ 10% to 90% of output waveform
Output Load			5 15	LS TTL pF	
Output Voltage	VOH VOL	0.9*Vdd		V V	0.1*Vdd
Tri-state Function (Option A)	VIH VIL	0.7*Vdd		V V	"1" or Open: Oscillation "0": Output disable (Hi Z)

## OPTIONS & PART IDENTIFICATION:

(Left blank if standard)

ACOW-32.768kHz-



(\*): Note: see table 1

Table (1)

Codes	Trimmed Length (inch(mm))
Q45	0.45 (11.43)
Q40	0.40 (10.16)
Q35	0.35 (8.89)
Q30	0.30 (7.62)
Q25	0.25 (6.35)
Q20	0.20 (5.08)
Q15	0.15 (3.81)
Q10	0.10 (2.54)

Note: Use appropriate code numbers for other trimmed lengths not listed.  
(Ex: Q14 for 0.14 inch (3.55 mm))

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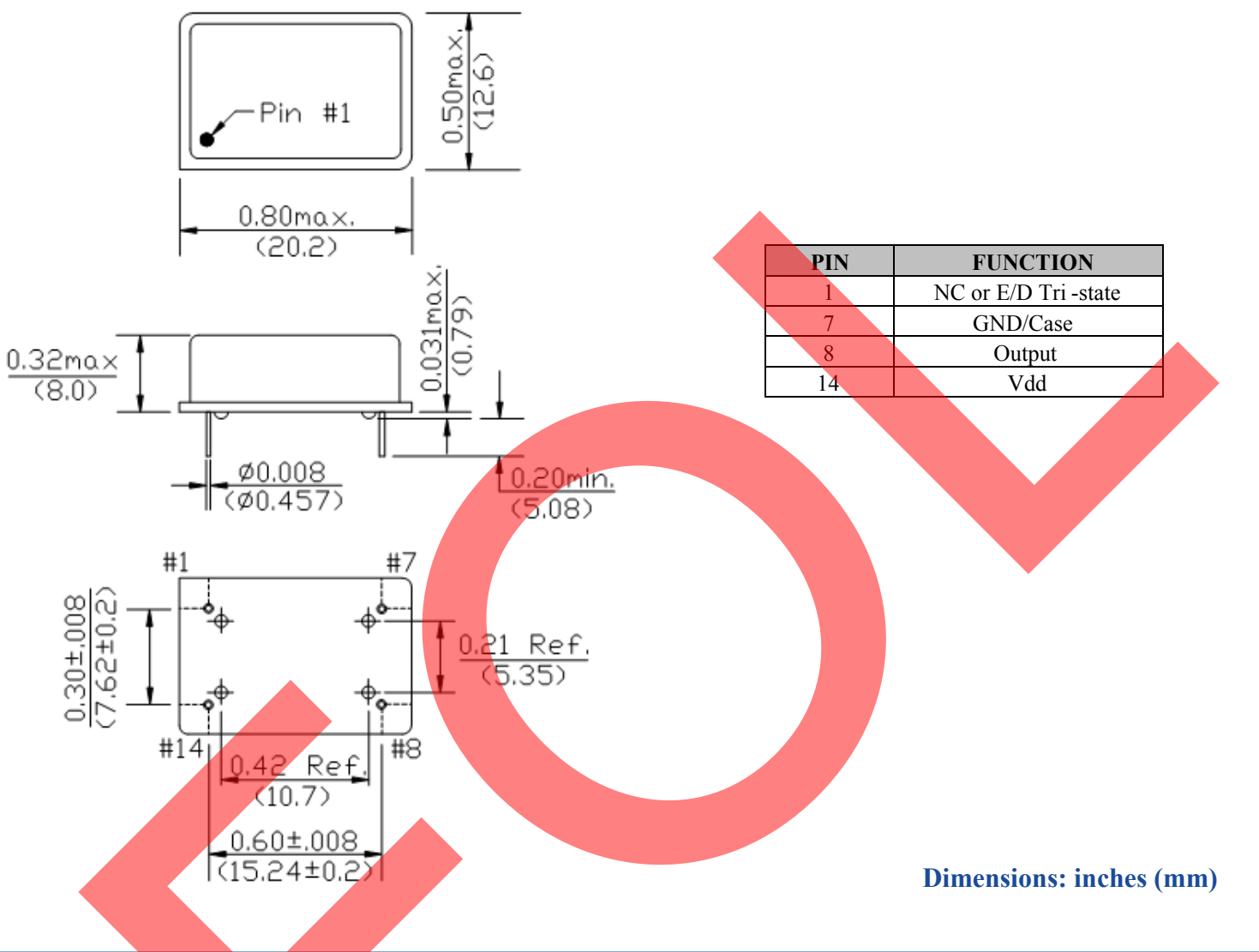
20.2 x 12.6 x 8.0 mm

ACOW

ESD Sensitive

RoHS/RoHS II compliant

## STANDARD SPECIFICATIONS:



**Packaging**  
25pcs /tube

**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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2 Faraday, Suite# B | Irvine | CA 92618 **Revised:04.01.15**  
Ph. 949.546.8000 | Fax. 949.546.8001  
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