32.768kHz SMD LOW PROFILE CRYSTAL



2.0 x 1.2 x 0.38mm

ABS06L

RoHS/RoHS II Compliant

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

FEATURES:

- Lowest height kHz package for 32.768kHz Crystals
- 0.38mm height ideal for high density circuit boards
- Ceramic package offers excellent environmental & heat resistance
- Extended temperature -40°C to +85°C for industrial applications

APPLICATIONS:

- Smart Display Credit Cards
- Wide range in communication & measuring equipment
- Commercial & Industrial applications
- Wireless communications
- PDA and Palm Pilots
- Credit Cards with Security Technology

STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency		32.768		kHz	
Operation Mode		Flexural Mode (Tuning Fork)			
Operating Temperature	-40		+85	ºC	
Storage Temperature	-55		+125	ºC	
Frequency Tolerance @+25ºC	-20		+20	ppm	See options
Temperature Coefficient	-0.04	-0.03	-0.02	ppm/T²	
Turn-over temperature	+20	+25	+30	ºC	
Equivalent series resistance (ESR)			100	kΩ	
Load capacitance		12.5		pF	See options
Drive Level		0.1	0.5	µW	
Aging (@ 25ºC)	-3		+3	ppm	First year
Insulation Resistance	500			MΩ	@ DC 100±15V

OPTIONS AND PART IDENTIFICATION:

(Left blank if standard)

ABS06L - 32.768 kHz - ☐ - ☐ - ☐

Load Capacitance
Blank: 12.5pF
9: 9pF

Contact Abracon for non-standard capacitance

Frequency Tolerance
Blank: ±20ppm
4: ±30ppm

±10ppm tolerance is available. Please contact Abracon for more information.

Packaging
Blank: Bulk
T: Tape & Reel (3000pcs/reel)

30332 Esperanza, Rancho Santa Margarita, California 92688
tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

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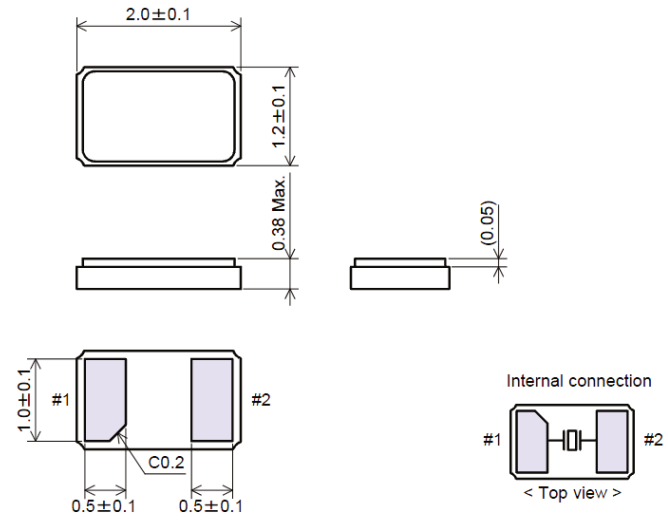
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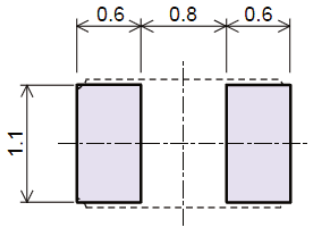


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OUTLINE DRAWING:



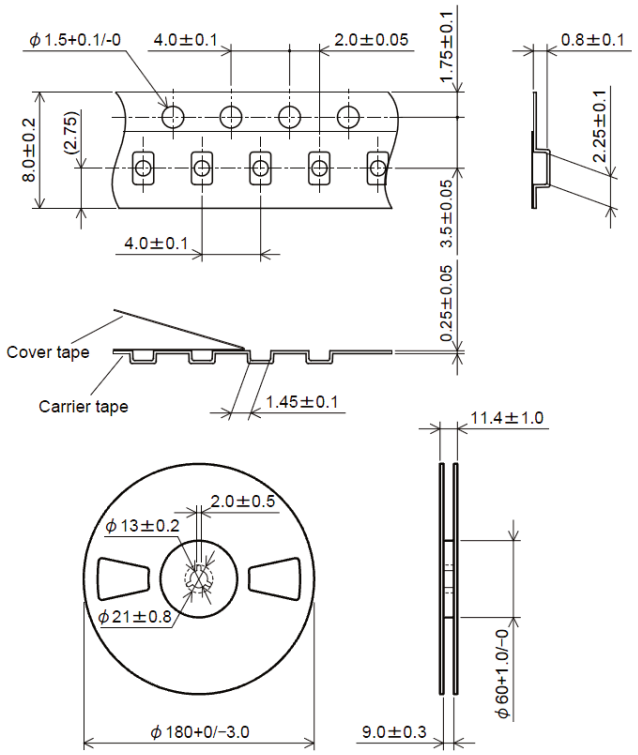
Recommended land pattern



Dimensions:mm

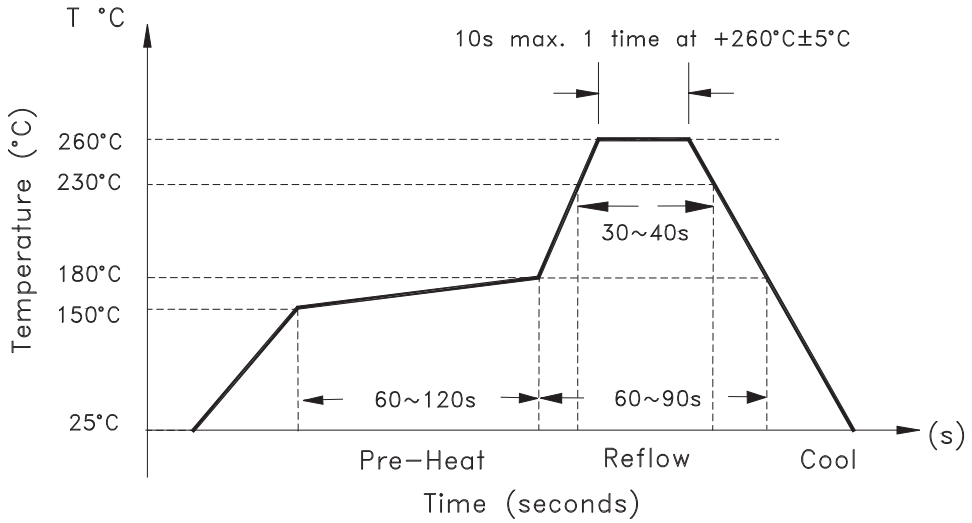
TAPE & REEL:

T=Tape and reel (3,000pcs/reel)



Dimensions: mm

REFLOW PROFILE:





Need a test socket for the ABS06 Series? To view compatible **PRECISION TEST & BURN-IN SOCKETS** for these parts, **click here. P/N AXS-2012-02-04**

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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