32.768kHz SMD LOW PROFILE CRYSTAL

ABS13

RoHS/RoHS II compliant.
Pb in high temperature solder
(exempt 7(a) per RoHS II 2011/65/EU Annex)



ABS13

6.9 x 1.4 x 1.3 mm

Moisture Sensitivity Level: Level 1

> FEATURES:

- Low frequency
- Plastic package with embedded heat resistant crystal in cylinder package
- Extended temperature -40°C to +85°C for industrial applications
- Suitable to RoHS compliant reflow

APPLICATIONS:

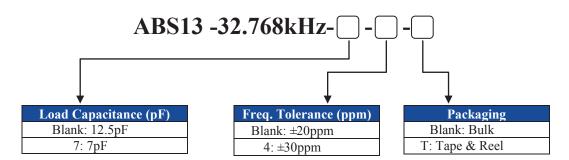
- Commercial & Industrial applications
- Wireless communications
- PDA and Palm Pilots

STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Nominal Frequency		32.768		kHz	
Operating Temperature	-40		+85	°C	
Turnover Temperature	+20	+25	+30	°C	
Storage Temperature	-55		+125	°C	
Frequency Tolerance @+25°C	-20		+20	ppm	See options
Frequency Coefficient (B)	-0.040	-0.034	-0.028	ppm/T ²	
Equivalent series resistance (R1)			65	kΩ	
Load capacitance (CL)		12.5		pF	See options
Drive Level			1	μW	
Aging	-3		+3	ppm	@25°C±3°C First year
Insulation Resistance	500			ΜΩ	$ @ 100 \text{Vdc} \pm 15 \text{V} $

> OPTIONS AND PART IDENTIFICATION:

(Left blank if standard)





REVISED: 08.14.2017

ABRACON IS ISO9001-2008 CERTIFIED

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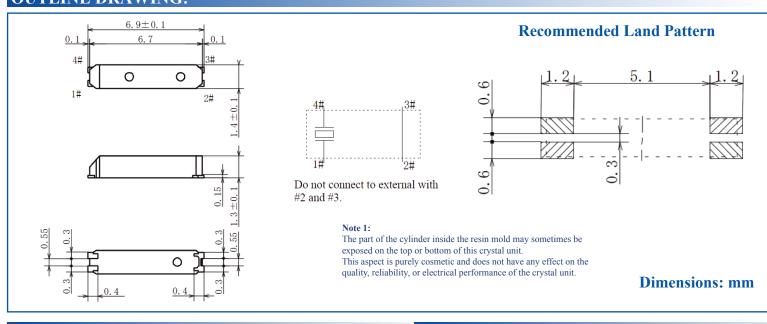
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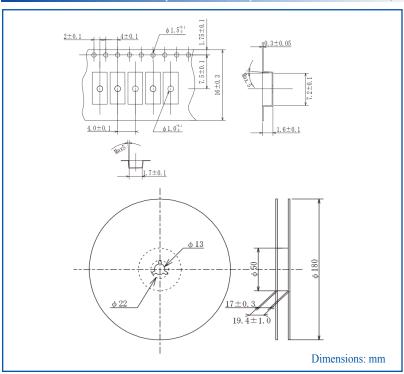
6.9 x 1.4 x 1.3 mm

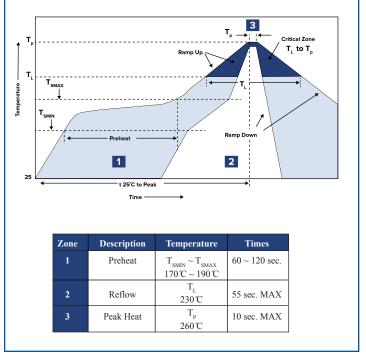
> OUTLINE DRAWING:



TAPE & REEL: T = Tape and reel 3,000pcs/reel

REFLOW PROFILE





ATTENTION: Abracon LLC'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 LLC is required. Please contact Abracon LLC for more information.



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