

Engineering/Process Change Notice

ECN/PCN No.: 3818

For Manufacturer				
Product Description: 32.768kHz SMD Crystal	Abracon Part Number / Part Series: ABS10	□ Documentation only □ ECN ☑ EOL	⊠ Series □ Part Number	
Affected Revision: K	New Revision: EOL	Application:	□ Safety ⊠ Non-Safety	
Prior to Change: ABS10 Rev. K				
After Change:				
EOL				
Cause/Reason for Change:				
Discontinuation of this older product package type and associated manufacturing capability.				
Change Plan				
Effective Date: 05/7/2021	Additional Remarks:			
Change Declaration:				
Issued Date:	Issued By:	Issued Department:	Issued Department:	
05/7/2021	Stephanie Lopez	Engineering		
Approval:	Approval:	Approval:		
Thomas Culhane Engineering Director	Reuben QuintanillaYing HuangQuality DirectorPurchasing Director		-	
	For Abracon EOL only		liector	
Last Time Buy (if applicable): 06/30/2021	Alternate Part Number / Part Series: None			
Additional Approval:	Additional Approval:	Additional Approval:		
Customer Approval (If Applicable)				
Qualification Status:				
Note: It is considered approved if there is no feedback from the customer 1 month after ECN/PCN is released.				
Customer Part Number:	Customer Project:			
Company Name:	Company Representative:	Representative Signature:		
Customer Remarks:				

Form #7020 | Rev. G | Effective: 02/22/2021 |

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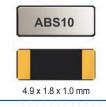






32.768 kHz S MD LOW PR OFILE CRYSTA L

ABS10



ABS10 is not recommended for new designs. Please consider the ABS04W or ABS05.

> FEATURES:

- Low frequency in small size SMD
- 1.0mm 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:

Wide range in communication & measuring equipment

RoHS

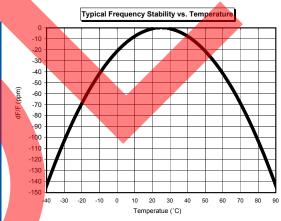
Compliant

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

> STANDARD SPECIFICATIONS:

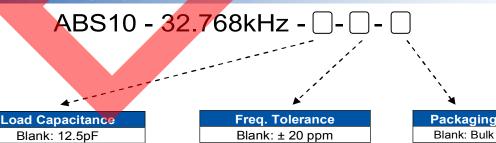
PARAMETERS		
ABRACON P/N	ABS10 Series	
Nominal Frequency	32.768 kHz	
Operating Temperature	-40°C to + 85°C	
Turn-over Temperature	+25°C to ±5°C	
Storage Temperature	-55°C to +125°C	
Frequency Tolerance	±20 ppm max. (see option)	
Temperature Coefficient (ß)	- 0.034±0.006 ppm/T ²	
Equivalent Series Resistance	70 kohms max.	
Load Capacitance CL	12.5 pF (see option)	
Drive Level	1.0 μW max.	
Aging (first year) 25°C first year	± 5 ppm max.	
Insulation Resistance	500 MΩ with 100 Vdc ±15V	
Shunt capacitance Co	1.0pF typ.	
Motional capacitance C1	2.0fF typ.	

TUNING FORK CRYSTAL TEMPERATURE CURVE



▷ OPTIONS AND PART IDENTIFICATION:

(Left blank if standard)



1: ± 10 ppm

4: ± 30 ppm

9: 9pF 7: 7pF *Contact ABRACON for

non-standard load capacitances.



5101 Hidden Creek Ln Spicewood TX 78669 Phone: 512-371-6159 | Fax: 512-351-8858 For terms and conditions of sales, please visit: www.abracon.com

REVISED: 03-04-21

T: Tape & Reel

ABRACON IS ISO9001-2015 CERTIFIED

32.768kHz SMD LOW PROFILE CRYSTAL

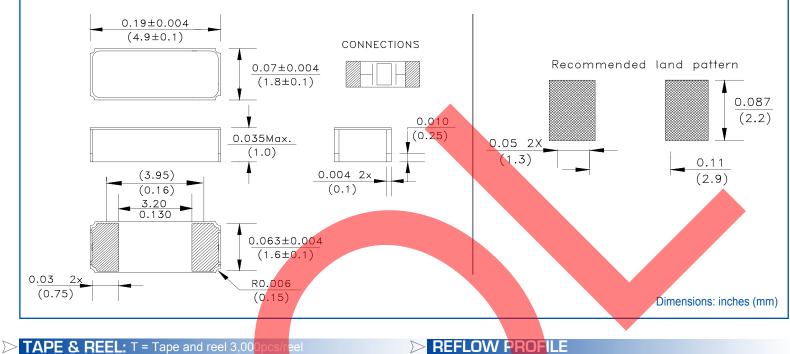


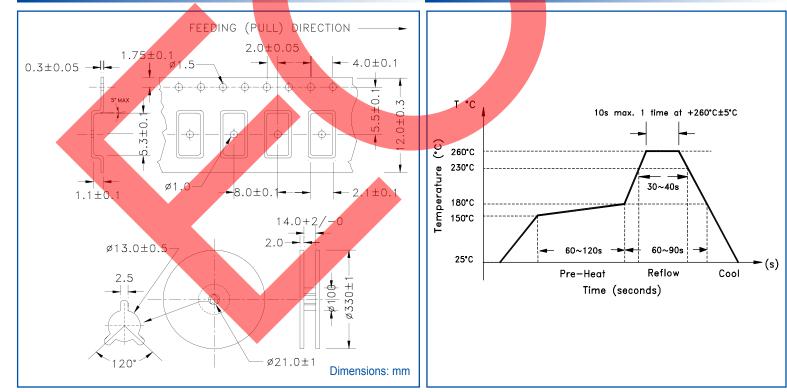
RoHS Compliant

4.9 x 1.8 x 1.0 mm

OUTLINE DRAWING:

ABS10





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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