

ABS25-32.768KHZ-6-1-T Datasheet

www.digi-electronics.com



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	ABS25-32.768KHZ-6-1-T-DG
Manufacturer	Abracon LLC
Manufacturer Product Number	ABS25-32.768KHZ-6-1-T
Description	CRYSTAL 32.7680KHZ 6PF SMD
Detailed Description	32.768 kHz \pm 10ppm Crystal 6pF 50 kOhms 4-SOJ, 5.50mm pitch

This model ABS25-32.768KHZ-6-1-T is available at DiGi Electronics.

DiGi Electronics offers a global database of semiconductor and electronic component datasheets.

We welcome your inquiries regarding pricing, lead time, or other product-related questions.

 [Request a Quote](#)

 [Datasheet Search](#)



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

ABS25-32.768KHZ-6-1-T

Series:

ABS25

Type:

kHz Crystal (Tuning Fork)

Frequency Stability:

-

Load Capacitance:

6pF

Operating Mode:

Fundamental

Ratings:

-

Package / Case:

4-SOJ, 5.50mm pitch

Height - Seated (Max):

0.098" (2.50mm)

Manufacturer:

Abracon LLC

Product Status:

Active

Frequency:

32.768 kHz

Frequency Tolerance:

±10ppm

ESR (Equivalent Series Resistance):

50 kOhms

Operating Temperature:

-40°C ~ 85°C

Mounting Type:

Surface Mount

Size / Dimension:

0.315" L x 0.150" W (8.00mm x 3.80mm)

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Affected

HTSUS:

8541.60.0010

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

32.768 kHz LOW FREQUENCY SMD CRYSTAL

ABS25

8.0 x 3.8 x 2.5 mm

ABS25

Pb in High Temperature Solder
(exempt 7(a) per 2015/863/EU Annex)RoHS
Compliant

FEATURES:

- Plastic molded SMD
- 2.5mm height ideal for high density circuit boards
- Suitable for RoHS compliant reflow
- Extended temperature -40°C to +85°C for industrial applications

APPLICATIONS:

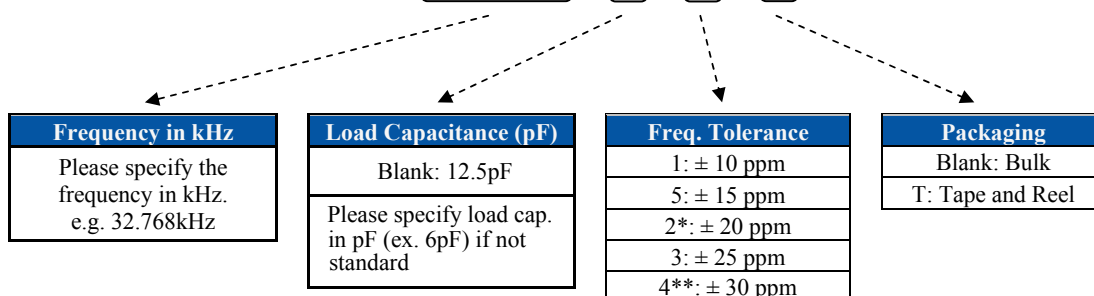
- Wide range in communication & measuring equipment
- Commercial & Industrial applications
- Computer clock

STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Nominal Frequency	-----	32.768	-----	kHz	
Frequency Range	30	-----	100	kHz	Other frequencies
Operating Temperature	-40	-----	+85	°C	
Turnover Temperature	+20	+25	+30	°C	
Storage Temperature	-55	-----	+125	°C	
Frequency Tolerance @+25°C	-20	-----	+20	ppm	32.768kHz
	-30	-----	+30		Other frequencies
Capacitance Ratio (C0/C1)	-----	450	-----		32.768kHz
	-----	425 to 800	-----		Other frequencies
Frequency Coefficient (B)		-0.035±0.01		ppm/°C ²	
Equivalent series resistance (R1)	-----	-----	50	kΩ	
Shunt capacitance (C0)	-----	1.35	-----	pF	32.768kHz
		0.8 to 1.7		pF	Other frequencies
Load capacitance (CL)		12.5		pF	See options
Drive Level	-----	-----	1	μW	
Aging @ 25°C±3°C (First year)	-3	-----	+3	ppm	32.768kHz
	-5	-----	+5		Other frequencies
Insulation Resistance	500	-----	-----	MΩ	@ 100Vdc ± 15V

OPTIONS AND PART IDENTIFICATION:

(Left blank if standard)

ABS25 - - - - 

*STD for 32.768kHz. Please leave this blank if F is 32.768kHz.

**STD for other frequencies. Please leave this blank if F is not 32.768kHz.

32.768 kHz LOW FREQUENCY SMD CRYSTAL

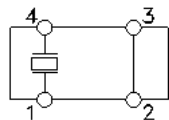
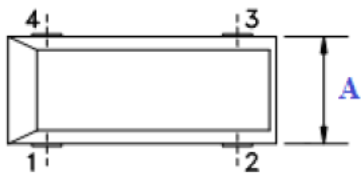


ABS25

Pb in High Temperature Solder
(exempt 7(a) per 2015/863/EU Annex)

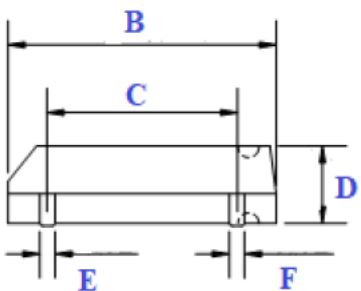
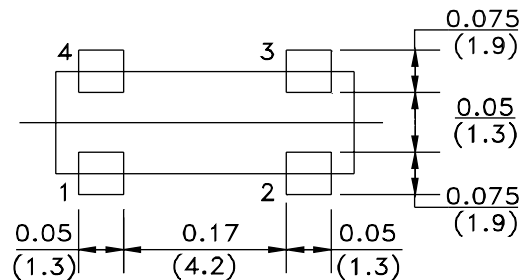
RoHS
Compliant

OUTLINE DRAWING:

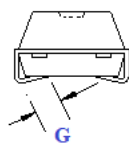


Electrode Arrangement
Pin 2 and 3 are not connected to the GND (Floating)

Recommended Land Pattern



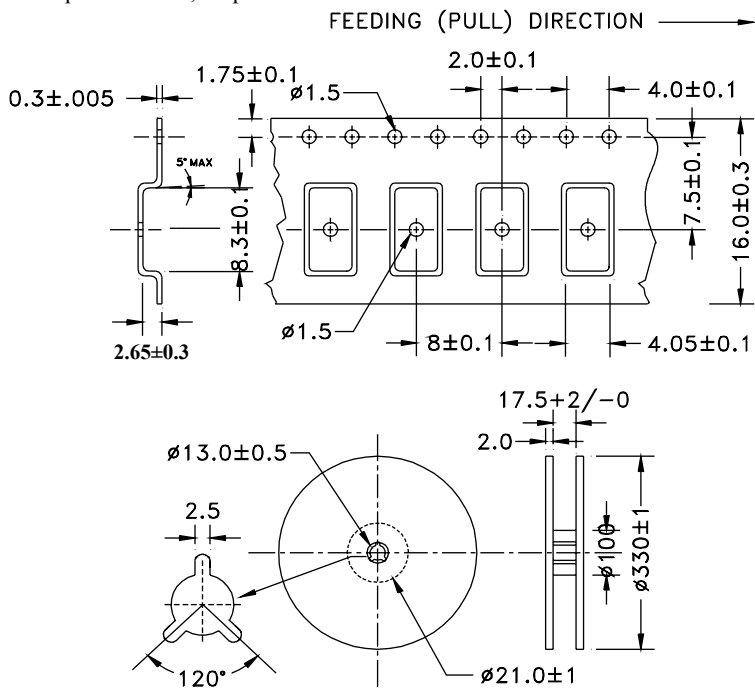
Dimension Table	
A	3.8 ± 0.2 MAX
B	8.4 MAX
C	5.5 ± 0.1
D	2.5 ± 0.1 MAX
E	0.5
F	0.5
G	0.9 Ref.



Dimensions: (inches) mm

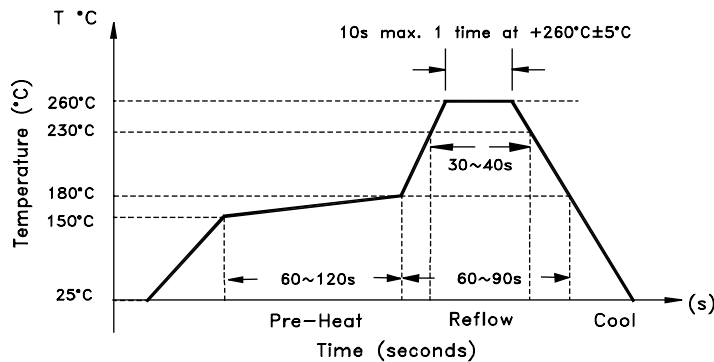
TAPE & REEL:

T = Tape and reel 3,000pcs/reel



Dimensions: mm

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-dependent 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.

OUR CERTIFICATE

DiGi provide top-quality products and perfect service for customer worldwide through standardization, technological innovation and continuous improvement. DiGi through third-party certification, we stricly control the quality of products and services. Welcome your RFQ to

Email: Info@DiGi-Electronics.com



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.