



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

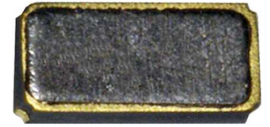
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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



32.768kHz SMD Low ESR Crystal



3.2 x 1.5 x 0.9 mm

ABS07-LR



RoHS/RoHS II Compliant

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

FEATURES:

- Guaranteed ESR of 50kΩ maximum for low power designs
- 0.9mm height ideal for high density circuit boards
- Seam sealed ceramic package offers excellent environmental & heat resistance
- Extended operating temperature of -40°C to +85°C for industrial applications

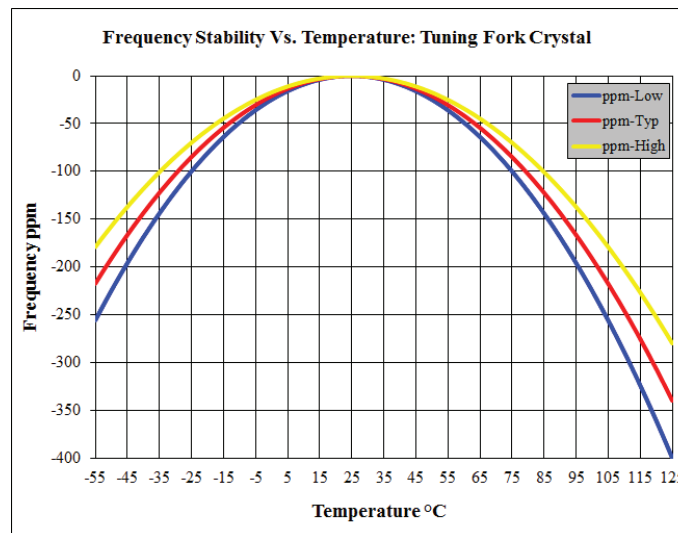
APPLICATIONS:

- Power sensitive designs requiring low ESR crystal
- Communication & measurement equipment
- Commercial, consumer & industrial applications
- Wireless communications
- PDA and smartphone

STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency	32.768			kHz	
Operation Mode	Flexural Mode (Tuning Fork)				
Operating Temperature	-40		+85	°C	
Storage Temperature	-55		+125	°C	
Frequency Tolerance @+25°C	-20		+20	ppm	See options
Temperature Coefficient:	-0.040	-0.034	-0.028	ppm/°C ²	
Turn-over temperature:	+20	+25	+30	°C	
Equivalent series resistance @+25°C			50	kΩ	
Shunt capacitance (C0)		1.3		pF	
Load capacitance (CL)		6		pF	
Drive Level		0.1	0.5	μW	
Q value		25000			
Aging@25°C±3°C	-3		3	ppm	First year
Insulation Resistance	500			MΩ	@ 100Vdc ± 15V

TYPICAL FREQUENCY VS. TEMPERATURE CHARACTERISTICS



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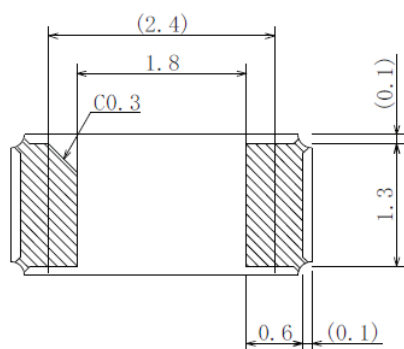
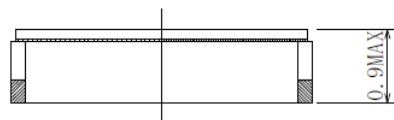
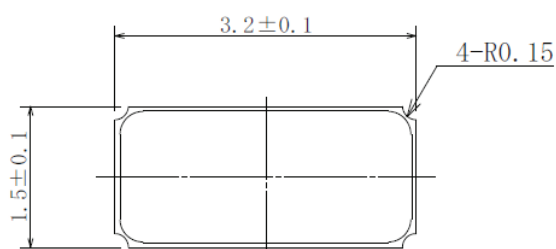
PART IDENTIFICATION (LEFT BLANK IF STANDARD)

ABS07-LR-32.768 kHz - 6 - -

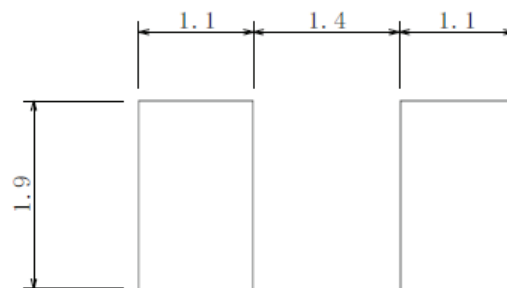
Freq. Tolerance
Blank: ± 20 ppm
1: ± 10 ppm

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

OUTLINE DIMENSIONS:



Recommended Land Pattern



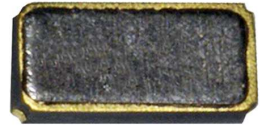
Dimensions: mm

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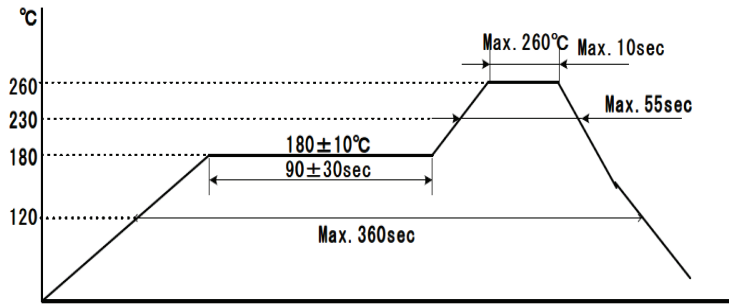


RoHS/RoHS II Compliant



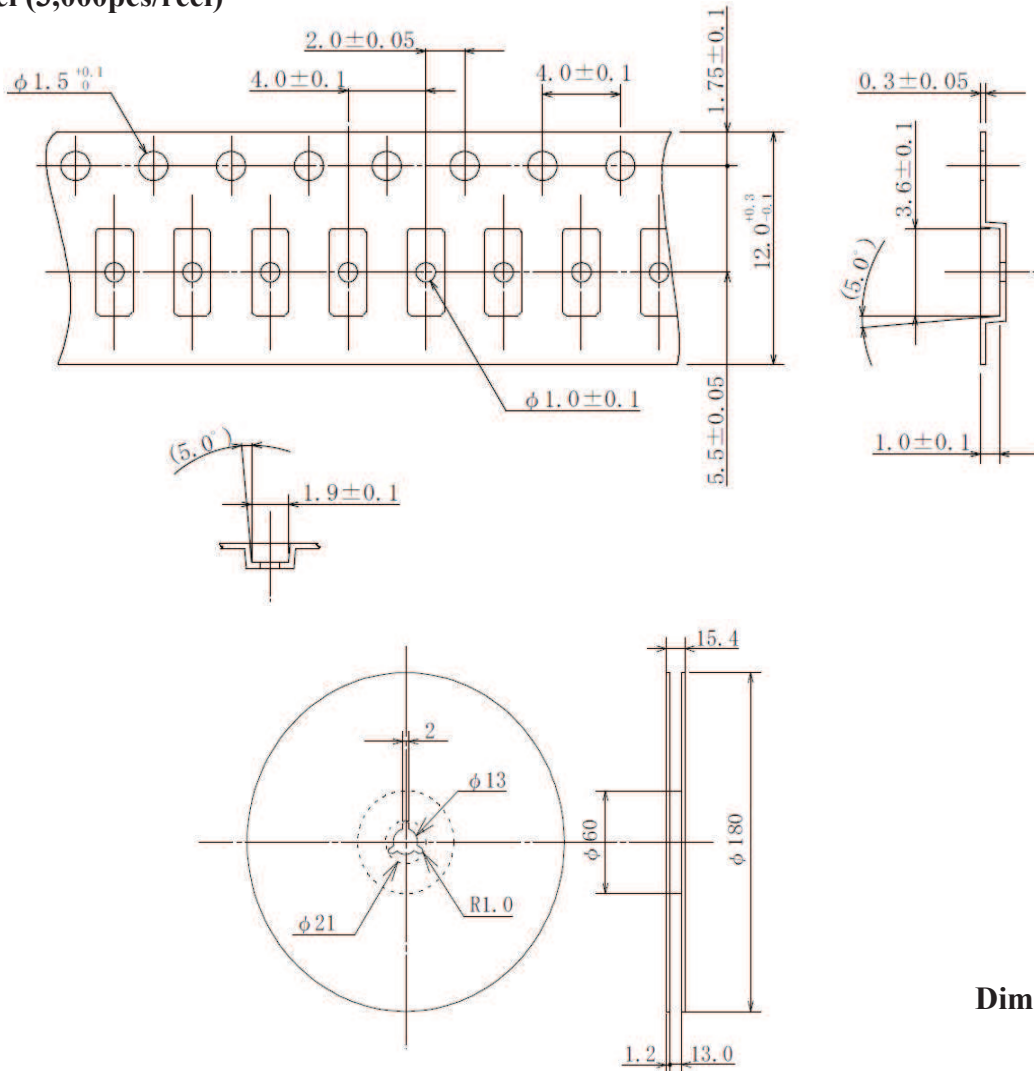
3.2 x 1.5 x 0.9 mm

REFLOW PROFILE



TAPE & REEL:

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



Dimensions: mm

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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