

SMD LOW PROFILE CRYSTAL



ABS06-127-32.768KHZ-T



2.0 x 1.2 x 0.6 mm
RoHS/RoHS II Compliant
MSL=N/A:NOTAPPLICABLE

FEATURES

- Miniature 2.0 x 1.2 mm footprint
- Low 0.6 mm profile
- Industrial temperature range (-40°C to +85°C)
- ±20 ppm initial frequency tolerance

APPLICATIONS

- Internet of Things (IoT)
- Industrial IoT
- Low power devices
- Real time clocks
- MCU clocking

KEY ELECTRICAL SPECIFICATIONS

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency		32.768		kHz	
Operation Mode	Flexural Mode (Tuning Fork)				
Operating Temperature Range	-40		+85	°C	
Storage Temperature	-55		+125	°C	
Frequency Tolerance @ +25°C	-20		+20	ppm	Tested at 0.5uW
Temperature Coefficient:	-0.04	-0.03	-0.02	ppm/T ²	
Turn-over temperature:	+20	+25	+30	°C	
Equivalent series resistance (R1)			90	kΩ	
Load capacitance (CL)		12.5		pF	
Drive Level		0.1	0.5	μW	
Q value	9000				
Aging@25°C±3°C	-3		3	ppm	First year
Insulation Resistance	500			MΩ	@ 100Vdc ± 15V

PART IDENTIFICATION

ABS06-127-32.768KHZ -

Packaging

Blank: Bulk

T3: 3kpcs / reel

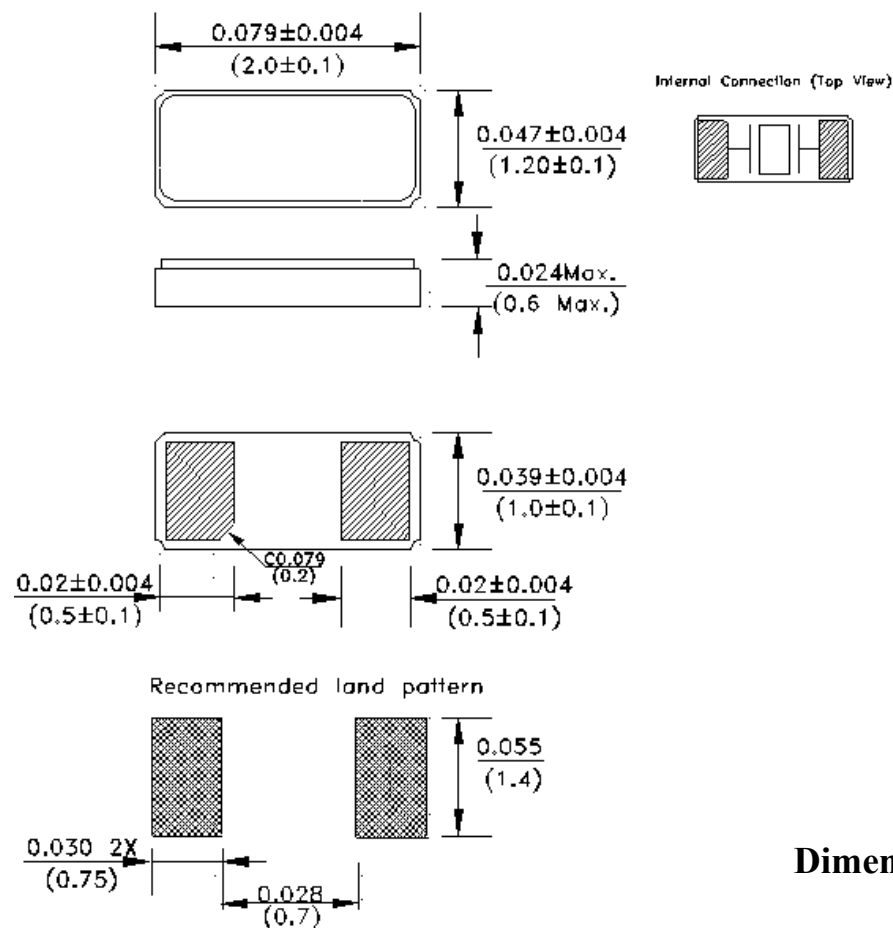
Two integrated circuits (chips) are shown. The foreground chip is a grey rectangular package with the text 'ABS06' printed on its top surface. Behind it is another similar chip, partially obscured, showing yellowish-gold contacts on its underside.

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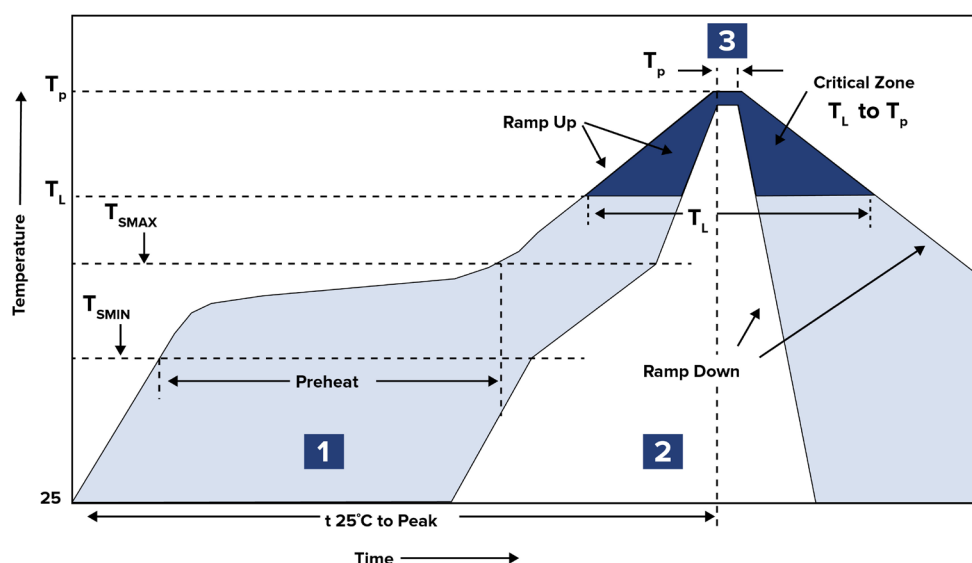


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MECHANICAL DIMENSIONS



REFLOW PROFILE



Zone	Description	Temperature	Time
1	Preheat	$T_{SMIN} \sim T_{SMAX}$ $150^{\circ}C \sim 180^{\circ}C$	60 ~ 120 sec.
2	Reflow	T_L $230^{\circ}C$	30 ~ 40 sec.
3	Peak Heat	T_P $260^{\circ}C$	10 sec.MAX

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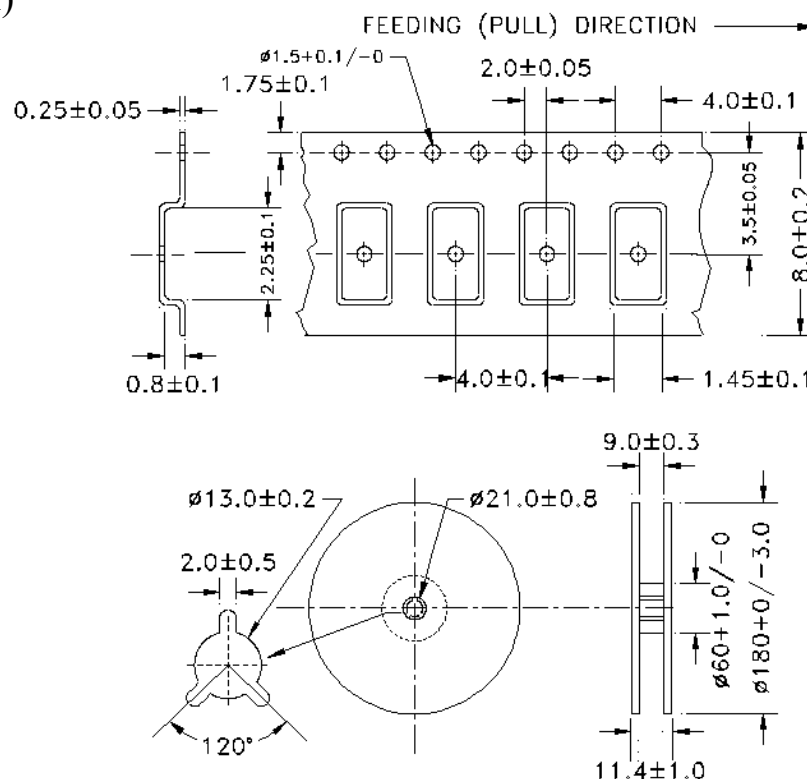


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RoHS/RoHS II Compliant

MSL=N/A:NOTAPPLICABLE

PACKAGING

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



Dimensions: mm

Mouser Electronics

Authorized Distributor

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[ABRACON:](#)

[ABS06-127-32.768kHz-T](#)