

Low Frequency Reflowable Tuning Fork Crystal



5.2 x 1.45 x 1.45mm

AB26TRQ

Pb in high melting temperature type solders exempt 7(a) and Pb in copper alloy up to 4% exemption 6(c) per RoHSII 2011/65/EU Annex **RoHS/RoHS II Compliant**

Moisture Sensitivity Level (MSL) = Level 1

FEATURES:

- Miniature square-body, formed lead SMD package: 5.2 x 1.45 x 1.45mm
- Excellent shock and vibration resistance
- Reflow Capable
- Low cost for consumer applications

APPLICATIONS:

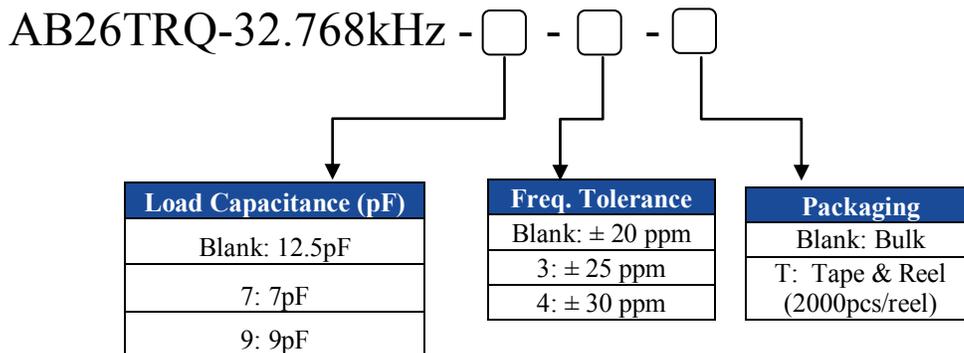
- Real time clock
- Measuring instruments
- Blue-tooth and wireless applications

STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency	32.768			kHz	
Operating Temperature	-40		+85	°C	
Turnover Temperature	+20	+25	+30	°C	
Storage Temperature	-55		+85	°C	
Frequency Tolerance @+25°C	-20		+20	ppm	See options
Frequency Coefficient (β)	-0.035±10%			ppm/°C ²	
Equivalent series resistance (R1)		50	65	kΩ	
Shunt capacitance (C0)		0.9		pF	
Motional capacitance (C1)		2.1		fF	
Load capacitance (CL)	12.5			pF	See options
Drive Level			1	μW	
Aging	-3		+3	ppm	@25°C First year
Insulation Resistance	500			MΩ	

OPTIONS & PART IDENTIFICATION:

(Left blank if standard)



Note: Please contact Abracon for tighter Freq. tolerance

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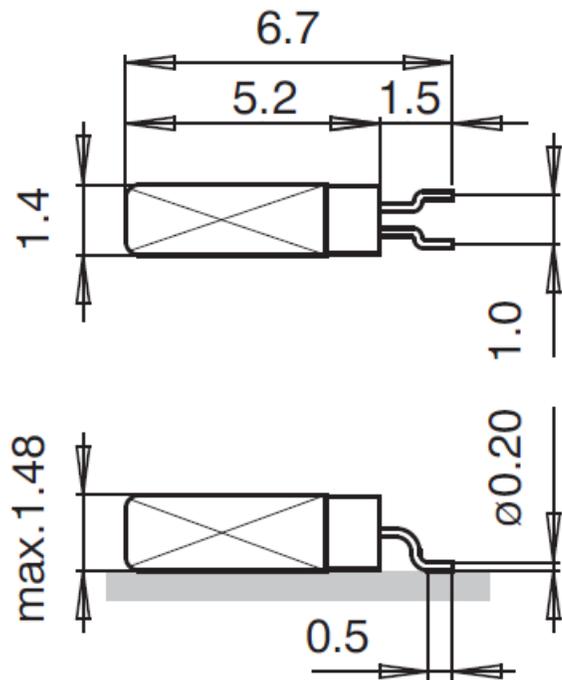


5.2 x 1.45 x 1.45mm

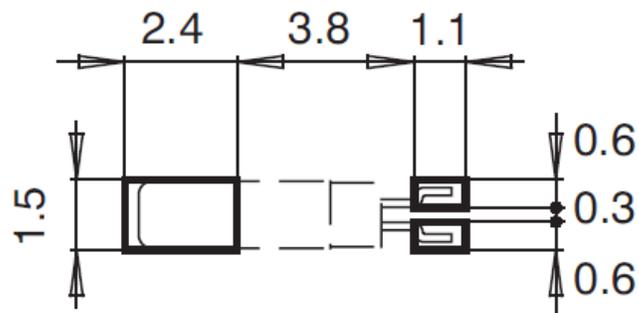
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OUTLINE DRAWING:

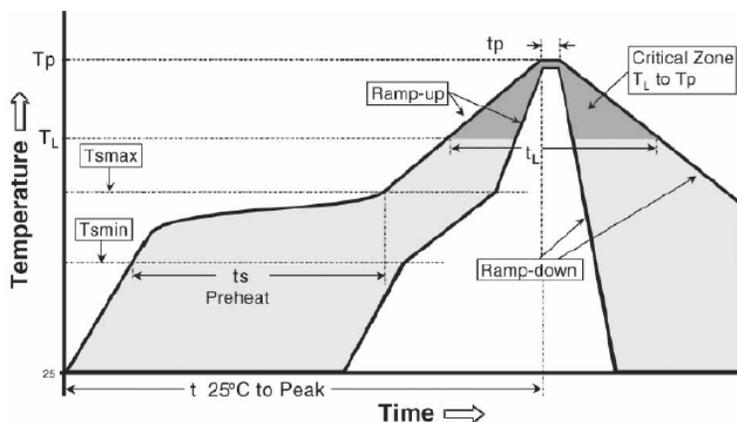


Recommended Land Pattern



Dimensions: mm

RECOMMENDED REFLOW PROFILE:



Temperature Range	Symbol	Condition	Unit
Average Ramp up Rate	(T _{Smax} to T _p)	3°C/second max	°C/s
Ramp Down Rate	T _{cool}	6°C/second max	°C/s
Time 25°C at Peak Temperature	T _{to-peak}	8 minutes max	m
Preheat			
Temperature Min	T _{Smin}	150	°C
Temperature Max.	T _{Smax}	200	°C
Time T _{Smin} to T _{Smax}	T _s	60-180	Sec
Soldering above Liquidus			
Temperature Liquidus	T _L	217	°C
Time above Liquidus	t _l	60-150	Sec
Peak Temperature			
Peak Temperature	T _p	260	°C
Time within 5°C of Peak Temperature	t _p	20-40	Sec



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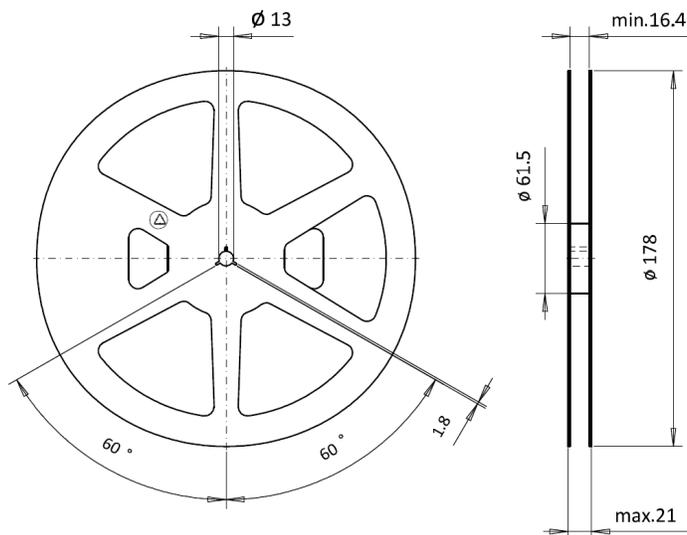
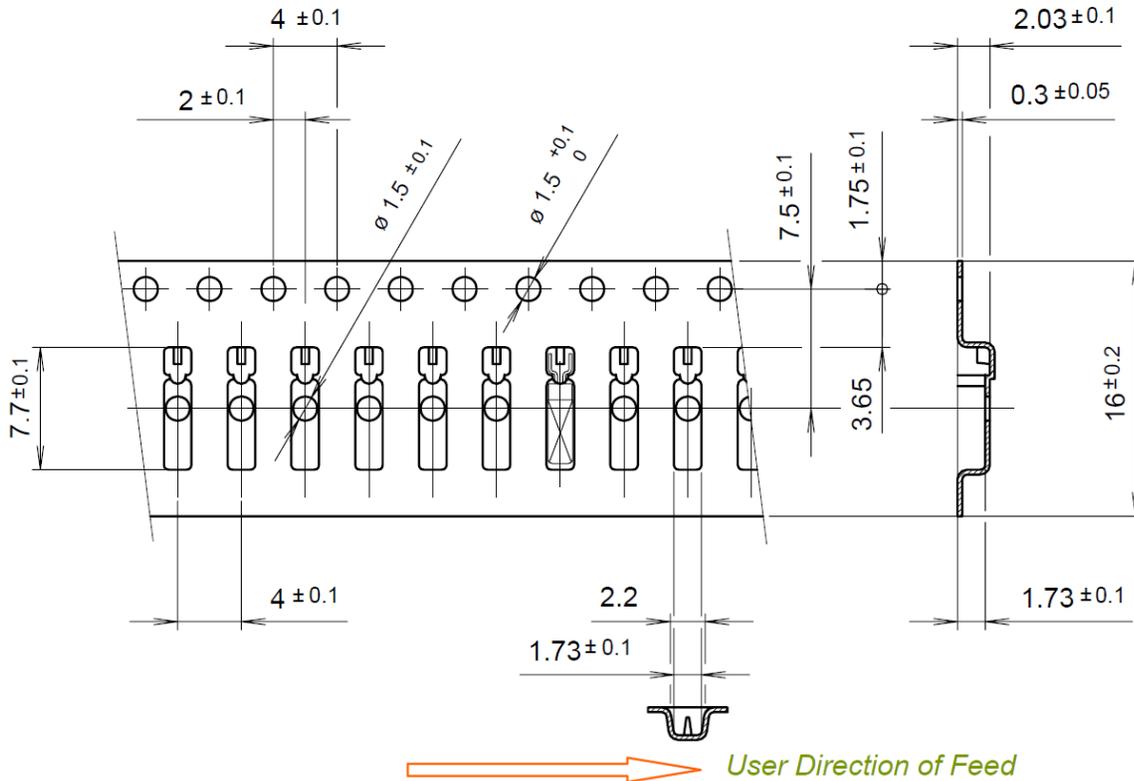
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TAPE & REEL:

Packaging: T= Tape & Reel (2000pcs/reel)



Dimensions: mm

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