Low Frequency Reflowable Tuning Fork Crystal



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



5.2 x 1.45 x 1.45mm

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:

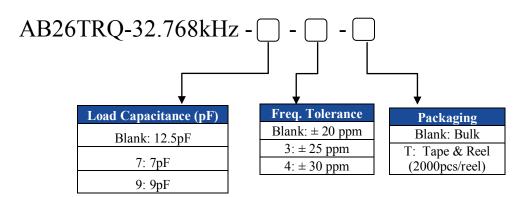
- Real time clock
- Measuring instruments
- · Blue-tooth and wireless applications

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℃ First year
Insulation Resistance	500			ΜΩ	

OPTIONS & PART IDENTIFICATION:

(Left blank if standard)



Note: Please contact Abracon for tighter Freq. tolerance



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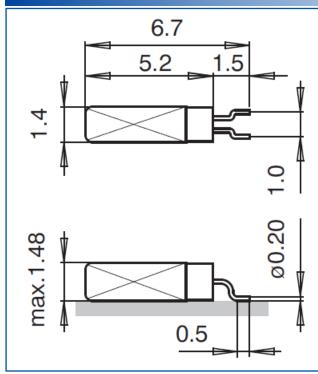


Pb in high melting temperature type solders exempt 7(a) and Pb in RoHS/RoHS II Compliant copper alloy up to 4% exemption 6(c) per RoHSII 2011/65/EU Annex

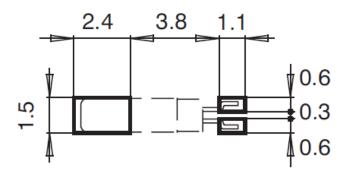


5.2 x 1.45 x 1.45mm

OUTINE DRAWING:

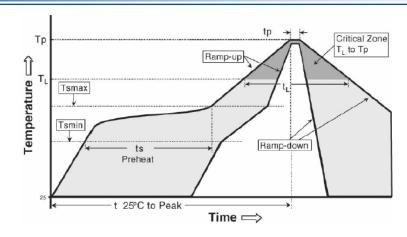


Recommended Land Pattern



Dimensions: mm

RECOMMENDED REFLOW PROFILE:



Temperature Range	Symbol	Condition	Unit
Average Ramp up Rate	(Ts _{max} to Tp)	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	Ts_{min}	150	$^{\circ}$ C
Temperature Max.	Ts _{max}	200	°C
Time Ts _{min} to Ts _{max}	Ts	60-180	Sec
Soldering above Liquidus			
Temperature Liquidus	$T_{\rm L}$	217	°C
Time above Liquidus	$t_{\rm L}$	60-150	Sec
Peak Temperature			
Peak Temperature	Тр	260	°C
Time within 5°C of Peak Temperature	tp	20-40	Sec



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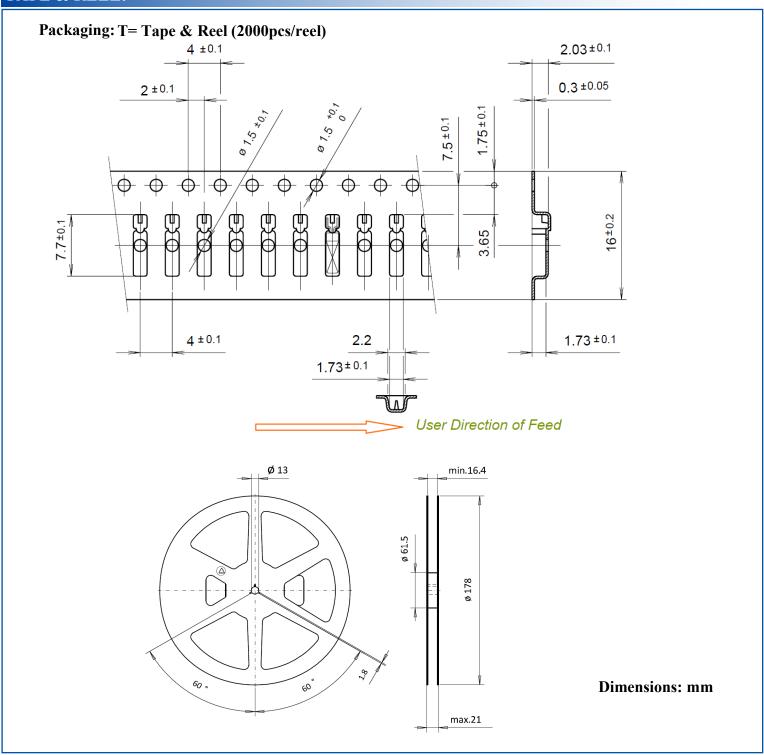
AB26TRQ

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5.2 x 1.45 x 1.45mm

TAPE & REEL:



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