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

AB26TRQ

• Low cost for consumer applications

STANDARD SPECIFICATIONS:

> APPLICATIONS:

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

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%			
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	

Pb in high melting temperature type solders exempt 7(a) and Pb in RoHS/RoHS II Compliant

OPTIONS & PART IDENTIFICATION:

(Left blank if standard)



Note: Please contact Abracon for tighter Freq. tolerance





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

5.2 x 1.45 x 1.45mm

OUTINE DRAWING:





Due to material availability, the current plating method utilizing Palladium (Pb) for the housing of AB26TRQ family of crystals is EOL'd. Going forward, the housing will be plated using Gold (Au). This change does not impact any electrical performance but enhances solderability and shelf life. This change is effective 07/01/2019 but please take note that during Q3-Q4 2019, AB26TRQ crystals may be shipped with either Pb or Au plating until the raw material inventory is consumed. Effective 01/01/2020, all AB26TRQ Quartz Crystals will be supplied with Au plating only. The image above reflects the cosmetic difference between two plating methodologies.



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5.2 x 1.45 x 1.45mm

RECOMMENDED REFLOW PROFILE:

AB26TRQ



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

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	°C
Temperature Max.	Ts _{max}	200	°C
Time Ts _{min} to Ts _{max}	Ts	60-180	Sec
Soldering above Liquidus			
Temperature Liquidus	TL	217	°C
Time above Liquidus	t _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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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

TAPE & REEL:



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