

Miniature Cylindrical Tuning Fork Crystal

2.0×6.0mm 32.768KHz

WQC-TF206

Features

- Miniature Cylindrical Tuning Fork Crystals
- Package Size: Φ2.0x6.0mm
- Low Aging, Low Power Consumption, High Shock
- RoHS Compliant/Pb Free

Applications

- Real Time Clock
- Consumer Devices
- Portable Electronics
- Time Display Devices

Electrical Specifications

Item	Symb.	Electrical spec.	Notes
Nominal Frequency	Freq.	32.768KHz	
Operating Temperature	T_use -10°C~+60°C/-20°C~+70°C		
Storage Temperature Range	T_stg	-40°C∼85°C	
Oscillation Mode	-	Fundamental	
Frequency Tolerance	f_tol	±10ppm / ±20ppm	at 25℃±3℃
Turnover Temperature	Ti	±25℃±5℃	
Parabolic curvature constant	В	-0.042ppm/(△°C)² max.	Over Operating Temp. Range (Reference 25°C)
Drive Level	DL	1 μW Max.	
Load Capacitance	CL	6pF;7pF;9pF;12.5pF	
Effective Resistance	RR	30kΩ max	
Aging	f_age	±3 ppm Max.	1st. Year at 25℃



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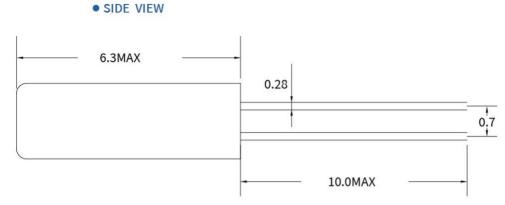




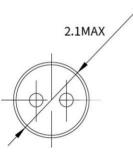
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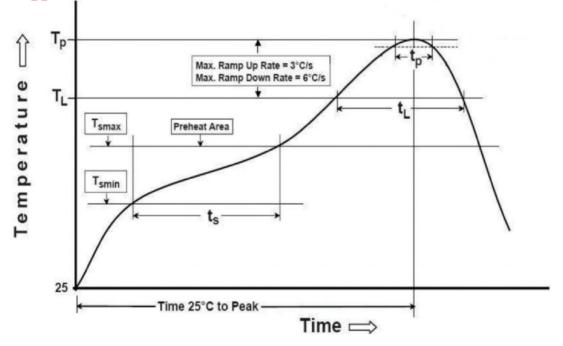
Dimensions (mm)



BOTTOM VIEW



Suggested Reflow Profile





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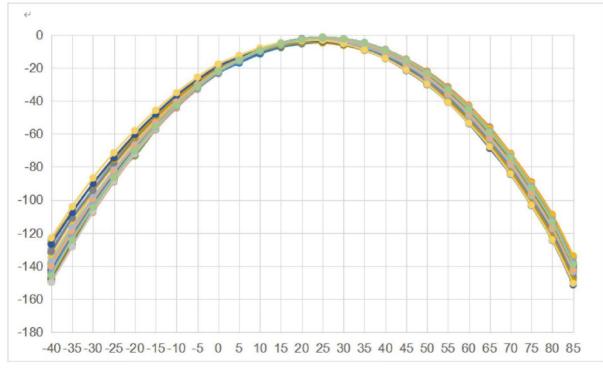


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Profile Feature	Sn - Pb Eutectic Assembly	Preheat / Soak
Preheat / Soak ● Temperature Min (Ts min) ● Temperature Max (Ts max) ● Time (Ts min to Ts max)	100°C 150°C 60-120 seconds	150°C 200°C 60-120 seconds
Ramp - up rate (TL to Tp)	3°C/ second max.	3°C/ second max.
Time maintained above • Liquidous temperature (TL) • Time (tL) maintained above TL	183°C 60-150 seconds	217°C 60-150 seconds
Peak package body temperature (Tp)	235°C	260°C
Time within 5° C of the specified classification temperature (Tp)	20 seconds	30 seconds
Ramp - down rate (Tp to TL)	6°C/ second max.	6°C/ second max.
Time 25° C to peak temperature	6 minutes max.	8 minutes max.
Suggust reflow times	2 Times max.	

Frequency Temperature Characteristics





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PN Structure:

WQC-TF2063276812520EBR

WQC-TF206 32.768kHz 12.5pF ±20ppm -10°C+60°C Bulk RoHS

<u>WQC-</u>	TF206	32768	<u>125</u>	<u>20</u>	С	В	R
2	Series	<u>Frequency</u> <u>Code(kHz)</u>	<u>Load</u> <u>Capacitance</u>	<u>Frequency</u> <u>Tolerance</u>	<u>Operating</u> <u>Temperature</u>	<u>Bulk</u>	<u>RoHS</u>
		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>

1. Frequency

32768 32.768kHz

2. Capacitance

125	12.5pF
09	9pF
07	7pF
06	6pF

3. Frequency Tolerance

10	\pm 10ppm
20	\pm 20ppm

4. Operating Temperature

C -10°C+60°C			С
E -20°C+70°C			С
5. Packing			
	В	Bulk	
6.	RoHS		
	R	RoHS	



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