



Miniature Cylindrical Tuning Fork Crystal 3.0×8.0mm

3.0×8.0mm 32.768KHz

Features

- Miniature Cylindrical Tuning Fork Crystals
- Package Size: Φ3.0x8.0mm
- 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℃~85℃	
Oscillation Mode	-	Fundamental	
Frequency Tolerance	f_tol	±10ppm / ±20ppm	at 25°C±3°C
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℃



WEE Technology Company Limited FLAT/RM 705, 7/F, FA YUEN COMM BLDG NO.75, FA YUEN STREET, MONG KOK, KL, HONG KONG

www.weetcap.com info@weetcap.com All details in this data sheet are subject to change without notice. For more details and updates, please visit our website.





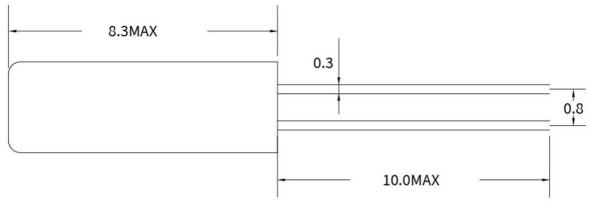




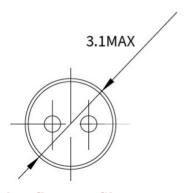
Miniature Cylindrical Tuning Fork Crystal 3.0×8.0mm

32.768KHz

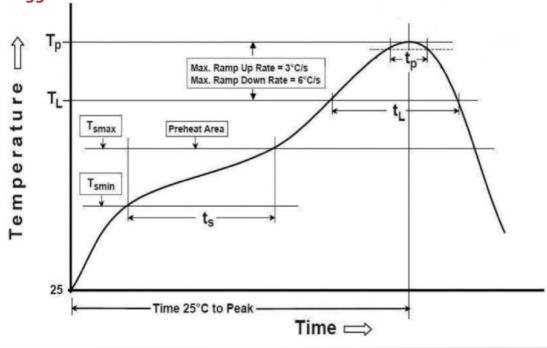
Dimensions (mm)



BOTTOM VIEW



Suggested Reflow Profile





WEE Technology Company Limited FLAT/RM 705, 7/F, FA YUEN COMM

BLDG NO.75, FA YUEN STREET, MONG KOK, KL, HONG KONG

www.weetcap.com info@weetcap.com All details in this data sheet are subject to change without notice. For more details and updates, please visit our website.

Copyright $\ensuremath{\mathbb{C}}$ 2000 WEE Technology, All rights reserved.



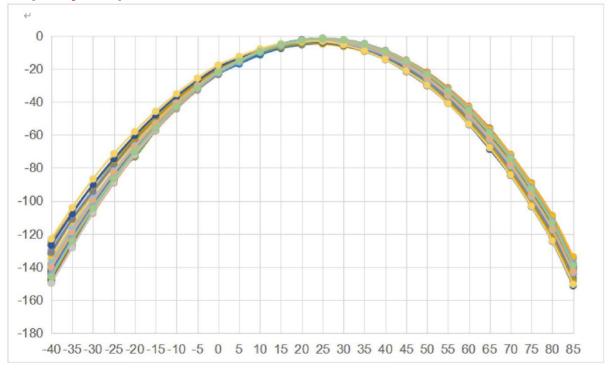




Miniature Cylindrical Tuning Fork Crystal 3.0×8.0mm 32.768KHz

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 Time	s max.

Frequency Temperature Characteristics





WEE Technology Company Limited FLAT/RM 705, 7/F, FA YUEN COMM BLDG NO.75, FA YUEN STREET, MONG KOK, KL, HONG KONG

www.weetcap.com info@weetcap.com All details in this data sheet are subject to change without notice. For more details and updates, please visit our website.









Miniature Cylindrical Tuning Fork Crystal 3.0×8.0mm 32.768KHz

PN Structure:

WQC-TF3083276812520EBR

WQC-TF308 32.768kHz 12.5pF ±20ppm -10℃+60℃ Bulk RoHS

WQC-	TF308	32768	<u>12.5</u>	<u>20</u>	С	В	R
		<u>Frequency</u>	<u>Load</u>	<u>Frequency</u>	<u>Operating</u>	<u>Bulk</u>	<u>RoHS</u>
5	<u>Series</u>	<u>Code(kHz)</u>	<u>Capacitance</u>	<u>Tolerance</u>	<u>Temperature</u>		
		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>

1. Frequency

2. Capacitance

12.5pF
9pF
7pF
6pF

3. Frequency Tolerance

10	\pm 10ppm
20	\pm 20ppm

4. Operating Temperature

С	-10°C+60°C
E	-20°C+70°C

5. Packing

D	Dulle
D	DUIK

6. RoHS

R	RoHS



FLAT/RM 705, 7/F, FA YUEN COMM

KOK, KL, HONG KONG www.weetcap.com

info@weetcap.com

All details in this data sheet are subject to change without notice. For more details and updates, please visit our website.

