

QETF26-GW

Tuning Fork 32.768KHz - clock source for communication equipment
Specification (Rev-D)

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November 06th, 2013

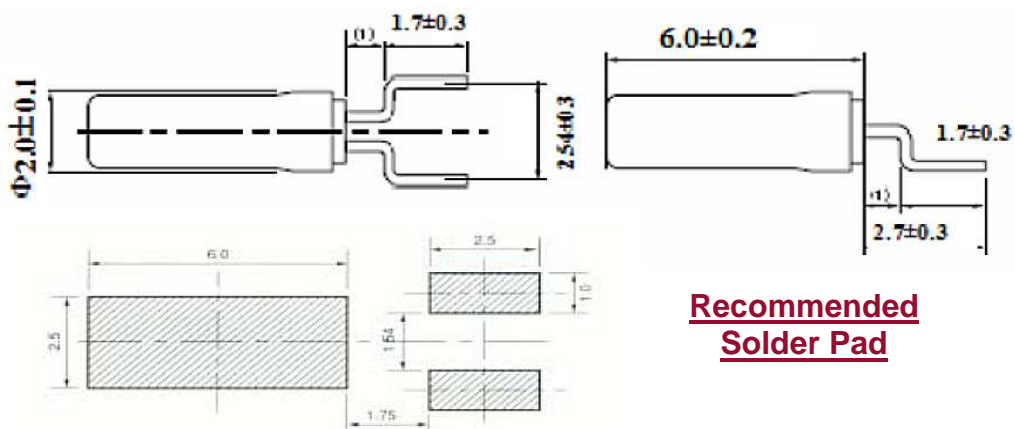
Electrical Characteristics

Electrical Parameters	Unit	Minimum	Typical	Maximum	Test conditions
Frequency Range	KHz		32.768		
Operating Temperature Range	°C	-20		70	
Storage Temperature Range	°C	-40		85	
Frequency Tolerance	ppm			± 20	Ref at 25°C
Frequency Stability	ppm	$-0.042 \times (\Delta \text{ } ^\circ\text{C})^2$			Turn over temp. at 25°C ± 3°C
Aging (First Year)	ppm			± 3	Ref at 25°C
Load Capacitance (C _L)	pF	7.0 or 12.5			
Shunt Capacitance (C ₀)	pF		2.0		
Series Resistance (ESR)	KΩ			50	
Drive Level	μW			1.0	
Insulation Resistance	MΩ	500			At 100V _{DC}

Environmental Specifications

	Test Conditions
Vibration Test	Subject sample to 2-minute cycles (frequencies from 10 to 500Hz) with 1.5mm amplitude or 100g acceleration during 2 hrs in each direction (X,Y,Z). 6 hours in total.
Shock Test	Orient the sample in any attitude and drop it 3 times from a height of 50cm onto a hardwood board with a thickness of 3cm.

Mechanical Characteristics



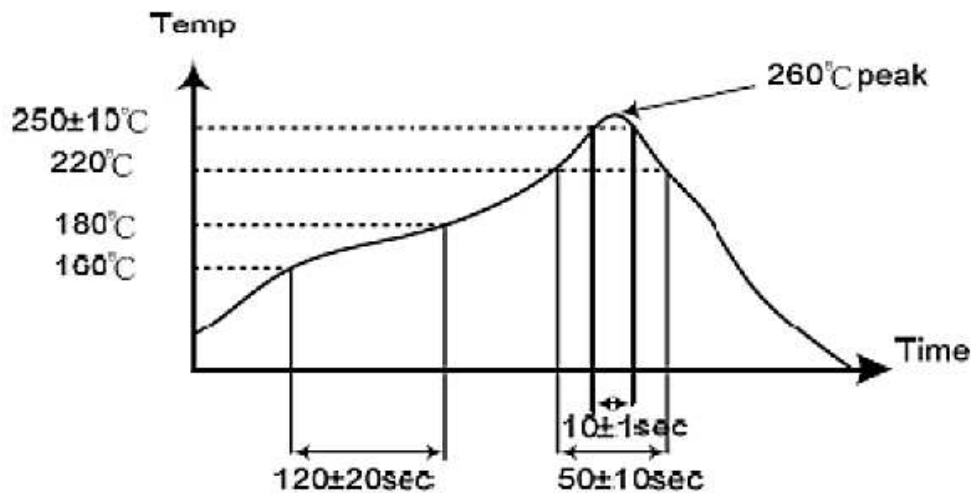
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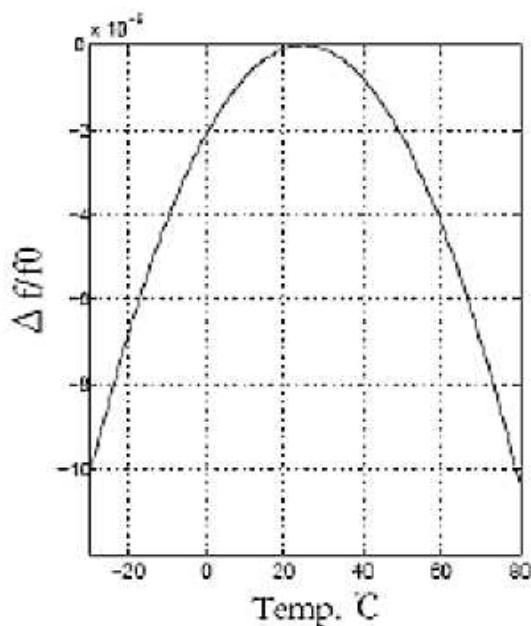
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▣ Suggested reflow profile



▣ Frequency vs Temperature Curve



▣ Standard Part

Frequency Tolerance ± 20 ppm	
Part Number	Load Capacitance
105680	7.0pF
104377	12.5pF