



# QETF26-GW

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

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November 30<sup>th</sup>, 2005

## 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	$-0.04 \times (\Delta \text{ } ^\circ\text{C})^2$			Turn over temp. at 25°C ± 5°C
Aging (First Year)	ppm			± 5	Ref at 25°C
Load Capacitance (CL)	pF		12.5		± 0.2pF
Shunt Capacitance (C0)	pF			2	
Series Resistance (ESR)	KΩ			50	
Drive Level	μW	0.8	1.0	1.2	
Insulation Resistance	MΩ	500			At 100V <sub>DC</sub>

## 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

