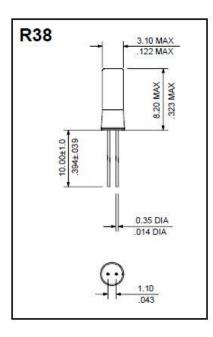


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• ELECTRICAL SPECIFICATIONS

PARAMETER	VALUE
NOMINAL FREQUENCY	32.768 kHz
FREQUENCY TOLERANCE AT 25°C	±5 ppm max
TURNOVER TEMPERATURE	25°C ± 5°C
PARABOLIC CURVATURE CONSTANT	-0.034 ppm/Δ°C ²
LOAD CAPACITANCE	12.5 pF
EQUIVALENT SERIES RESISTANCE	35 kΩ max
DRIVE LEVEL	1.0 µW typ
MOTIONAL CAPACITANCE	0.0035 pF typ
SHUNT CAPACITANCE	1.6 pF
CAPACITANCE RATIO	460
AGING	±3 ppm first year max
QUALITY FACTOR TYP	90000
INSULATION RESISTANCE	500 MΩ min
OPERATING TEMPERATURE RANGE	-20°C to +60°C
STORAGE TEMPERATURE RANGE	-40°C to +85°C
SHOCK RESISTANCE	±5 ppm max 75 cm drop test in onto a hard wood surface

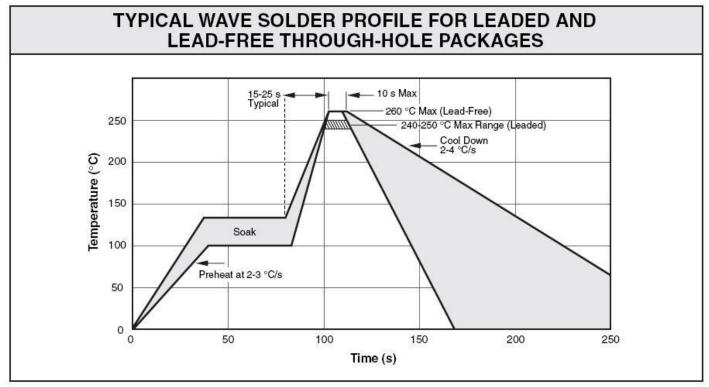
MECHANICAL SPECIFICATION



NOTE: Through hole device can withstand 245°C soldering by terminals only



WAVE SOLDER PROFILE



Wave Solder profile			
Profile Feature	SnPb eutectic	Pb-Free	
Average ramp-up rate	~200°C/second	~200°C/second	
Heating Rate during preheat	typical 1-2°/second max 4°/second	typical 1-2°/second max 4°/second	
Final preheat temperature, Ts	~130°C	~130°C	
Peak temperature, T _P	235°C	260°C	
Time within +0°C / -5°C of actual temperature, t_P	10 seconds	10 seconds	
Ramp-down rate	5°C/second max.	5°C/second max.	

NOTE: This document should serve as recommendation only. Other parameters may also affect soldering, this profile does not guarantee absolute success. Soldering profile should be determined by the equipment manufacturer and customers' process engineer.

ENVIRONMENTAL

PARAMETER	VALUE
MOISTURE SENSITIVITY LEVEL	1
RoHS	5/6 COMPLIANT, EXEMPTION 7a
REACH SVHC	COMPLIANT
HALOGEN-FREE	COMPLIANT
ESD CLASSIFICATION LEVEL	N/A
TERMINATION FINISH	Sn





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APPROVAL

DRAWN BY:	KJackson, July 10, 2015
APPROVED BY:	KJackson, July 10, 2015
REVISION:	A, Initial Release B, AG, January 11, 2019. Update from Reflow to Wave
	Update from Reflow to Wave
	solder

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