

7015

[7.0×1.5×1.40 mm]

8038

[8.0×3.8×2.50 mm]

3068

[4.1×7.6 mm]


32.768 kHz SMD Crystals

Frequency Tolerance Options

±5 ppm

±10 ppm

±20 ppm

Features

- Small size tuning fork crystal unit, with 7.0×1.5×1.4 mm, 8.0×3.8×2.5 mm, 4.1×7.6×2.0mm.
- Excellent heat resistance and environmental characteristics
- Excellent electric performance optimum for mobile communications, Office automation, Audiovisual application are exhibited
- RoHS compliant
- These can meet the requirements of re-flow profiling using lead-free soldering
- Applications: Small communications devices, Clock, Microcomputer, etc



Standard Specifications

Item / Type	7015	8038	3068
Frequency range	32.768 kHz		
Package size (L×W×H)	7.0×1.5×1.40 mm	8.0×3.8×2.50 mm	4.1×7.6×2.0 mm
Shunt capacitance	0.8 pF typ.	1.3 pF typ.	1.6 pF typ.
Equivalent series resistance	65 KΩ max.	50 KΩ max.	60 KΩ max.
Parabolic coefficient	±0.04×10 ⁻⁶ /°C ² max.		(-0.034±0.006)×10 ⁻⁶ /°C ² max.
Drive Level	1 μW max.		
Operating Temperature Range	-20°C~+70°C		
Storage Temperature Range	-40°C~+85°C		
Crystal Cut	XT-Cut		
Load Capacitance	6 pF, 7 pF, 9pF, 12.5pF		
Frequency Tolerance	±5 ppm, ±10ppm, ±20ppm (max.) at 25°C		
Turning Temperature	+25°C±5°C		
Insulation resistance	500 MΩ max.		
Frequency Aging (25°C)	±3 ppm / Year max.		

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32.768 kHz SMD Crystals

Frequency Tolerance Options

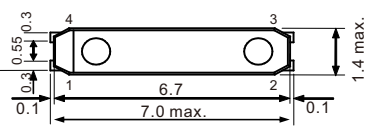
±5 ppm

±10 ppm

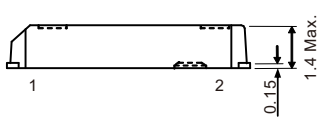
±20 ppm

Outline Dimensions (Unit: mm)

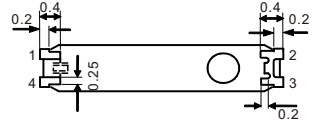
7015 (7.0×1.5×1.40 mm)



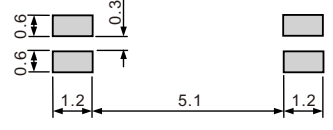
Top View



Side View

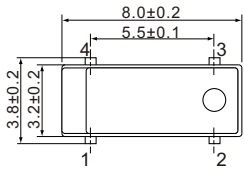


Bottom View /Internal Connection

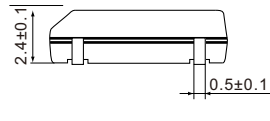


Top View Suggested Layout

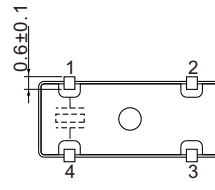
8038 (8.0×3.8×2.50 mm)



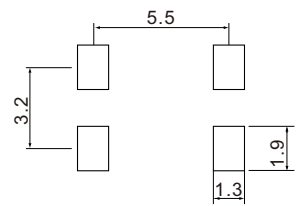
Top View



Side View

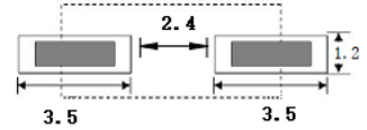
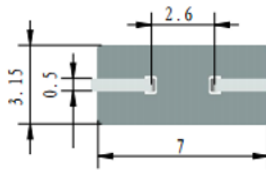
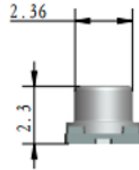
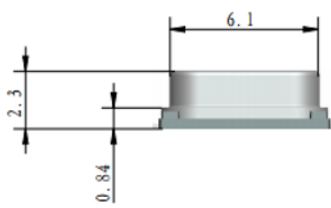


Bottom View /Internal Connection



Top View Suggested Layout

3068 (4.1×7.6×2.0mm)



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