

6G

[6.0×3.5×1.00 mm]

6F

[7.0×5.0×1.00 mm]

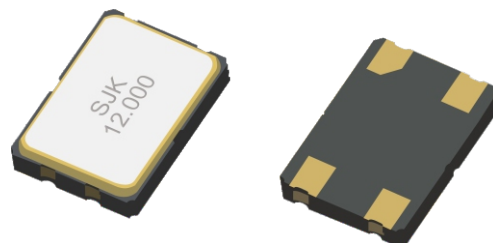
Surface Mount Crystals

6G, 6F

Fundamental /3rd
Frequency Range
6MHz~160MHz

Features

- Small size SMD crystal units with 6.0×3.5 (6035), 7.0×5.0 (7050), seam sealed package.
- 2-Pads package for 6035, 4-pads package for 6035 and 7050
- The tight tolerance and tight stability crystal is ideal for communications.
- The crystal package will withstand solder reflow.
- Applications: Telecommunication, PC and peripherals, Radio communications, Machine, Smart grid, Factory automation, etc.
- RoHS Compliant / Pb-Free



Standard Specifications

Item / Type	6G (6.0×3.5×1.00 mm)	6F (7.0×5.0×1.00 mm)
Frequency Range	8~100 MHz(Fund. /3rd)	6~160 MHz (Fund. / 3rd)
Load Capacitance	10pF~32pF, or specify	
Drive Level	10 µW typical (200 µW max.)	
Frequency Tolerance (at 25°C)	± 10ppm, ±20ppm or ±30ppm (max.)	
Aging	±3ppm / Year (max.)	
Storage Temperature Range	-55°C~+125°C	

ESR (Equivalent Series Resistance)

6G (6.0×3.5×1.00 mm)		6F (7.0×5.0×1.00 mm)	
Frequency Range	E.S.R	Frequency Range	E.S.R
8.0~10.0MHz	150 Ω max.	6.0~10.0 MHz	120 Ω max.
10.0~12.0MHz	80 Ω max.	10.0~12.0 MHz	60 Ω max.
12.0~50.0MHz	50 Ω max.	12.0~30.0MHz	50 Ω max.
50.0~100.0MHz	80 Ω max.	30.0~50.0 MHz	30 Ω max.
		50.0~90.0 MHz	50 Ω max.
		90.0~160.0 MHz	100 Ω max.

Frequency stability Vs Operating temperature range

ppm Temp. (°C)	±5	±10	±15	±20	±25	±30	
-10~+60	▲	○	○	○	○	○	▲: Conditional ○: Available ✕: Not available
-20~+70	✕	○	○	○	○	○	
-40~+85	✕	✕	○	○	○	○	

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6G, 6F

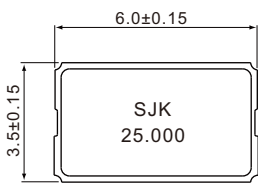
Fundamental /3rd

Frequency Range

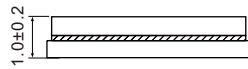
6MHz~160MHz

Outline Dimensions (Unit: mm)

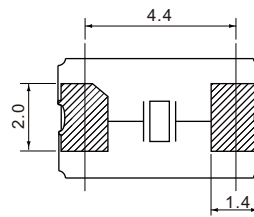
6G (6.0×3.5×1.00 mm) -2 pads



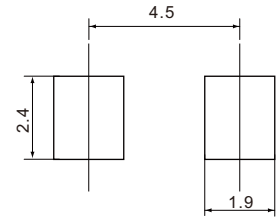
Top View



Side View

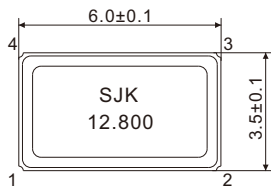


Bottom View

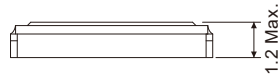


Top View Suggested Layout

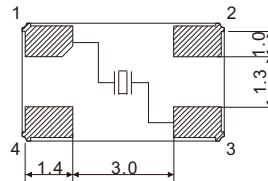
6G (6.0×3.5×1.20 mm) -4 pads



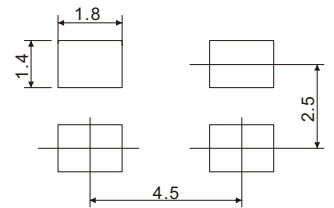
Top View



Side View

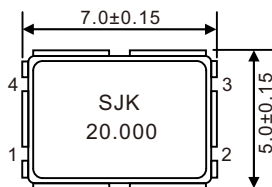


Bottom View

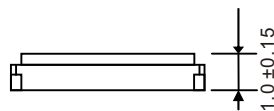


Top View Suggested Layout

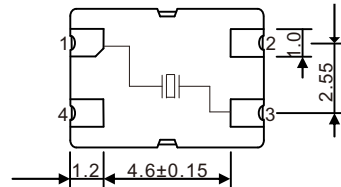
6F (7.0×5.0×1.00 mm)



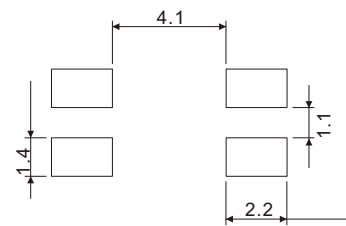
Top View



Side View



Bottom View



Top View Suggested Layout