

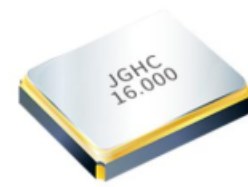
# SMD Seam Sealing Crystals

## 2.0x1.6x0.5mm S21 Series



### Features

- Extremely small SMD type crystal units.
- High precision and high frequency stability.
- Excellent heat resistance and environmental characteristics.
- Applications in PDA,DSC,DVC,PC, etc.
- RoHS Compliant / Pb Free.



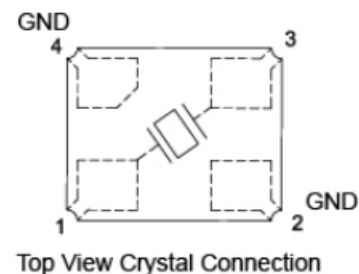
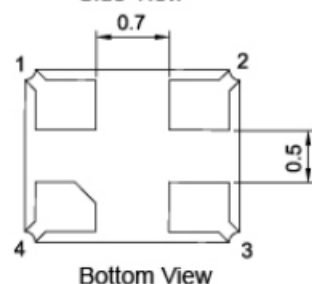
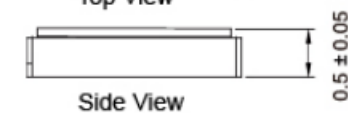
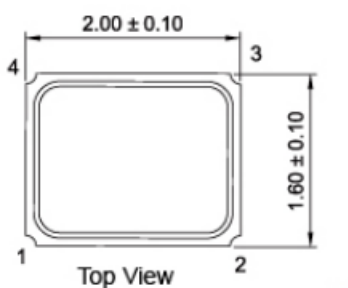
### Crystals specifications

ITEMS/TYPE	S21
Frequency Range	16~96MHz
Load Capacitance	8pF, 9pF, 12pF, or specify
Frequency Tolerance (at 25°C)	±10ppm, ±20ppm, or specify
Frequency Stability Over Operating Temperature Range	±10ppm, ±20ppm, or specify
Operating Temperature Range	-40~+85°C, or specify
Shunt Capacitance (C0)	3pF Max.
Drive Level	1~200μW (100μW typical)
Aging (at 25 °C)	± 3 ppm/year Max.
Storage Temperature Range	-40~+125°C

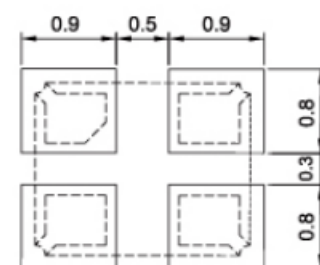
### Equivalent Series Resistance(ESR)

Frequency Range	Mode	ESR.	Frequency Range	Mode	ESR.
16.000~19.999MHz	FuAT,FundI	120 ΩMax.	30.000~54.000MHz	FuAT,FundI	60 ΩMax
20.000~29.999MHz	uAT,FundI	80 ΩMax.	54.000~96.000MHz	uAT,FundI	40 ΩMax

### Dimensions and patterns(unit:mm)



Top View Crystal Connection



Top View Suggested Layout