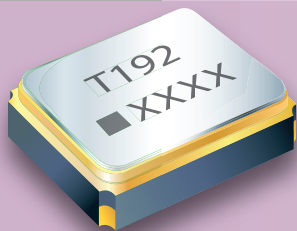


SMD Seam Temperature Sensing Crystals 2.5 x 2.0 x 1.0 mm AE Series



Features

- High precision and high frequency stability.
- Excellent thermal coupling between thermistor and crystal.
- Application in mobile communications.
- RoHS Compliant / Pb Free.

Electrical Specifications

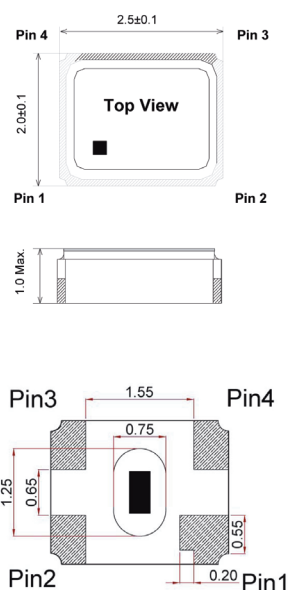
Item / Type	AE
Frequency Range	19.2 MHz
Frequency Tolerance (at 25°C)	± 10 ppm , or specify
Frequency Stability Over Operating Temperature Range	± 30 ppm , or specify
Operating Temperature Range	-40 ~ 105 °C or specify
Shunt Capacitance (C0)	3 pF Max.
Drive Level	1 ~ 200 μW (50 μW typical)
Load Capacitance	8 pF , 10 pF , 12 pF , or specify
Storage Temperature Range	-40 ~ +105 °C
Thermistor Resistance (25°C)	100 kΩ , or specify
Thermistor B-constant (25~50°C)	4250, or specify
Reliability Standard	AEC-Q200

Equivalent Series Resistance(ESR)

Fundamental

19.2 MHz | 100 Ω Max.

Dimensions

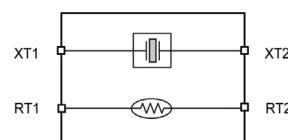


PIN FUNCTION

	Symbol	Function
Pin 1	XT1	XTAL Terminal 1
Pin 2	RT2	Thermistor Terminal 2
Pin 3	XT2	XTAL Terminal 2
Pin 4	RT1	Thermistor Terminal 1

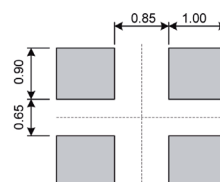
Note: Pin 2 is connected to the metal lid and thermistor
Pin 4 is connected to the thermistor only

BLOCK DIAGRAM



Note: RT2 shall be connected to GND is recommended

SUGGESTED LAYOUT



Units: mm