

THR-2520

Miniature Surface Mount Type Crystal Units

Resonator with Built-In Thermistor

Feature

- Minimal footprint, low profile (2.5×2.0, 1.0Max.).
- Thermistor size (0.6×0.3mm).
- Hermetically sealed - [Seam welding methodology]
- High Reflow Temperature Tolerance
- RoHS compliant - Lead Free

Applications

Smart phone, Cellular Phones

Standard Specifications

Characteristic	Value
Size (mm)	2.5×2.0, 1.0t max.
Overtone Order	Fundamental
Frequency Range (MHz)	19.2 to 52 (See Table 1)
Equivalent Series Resistance (Ω)	70max.
Drive Level (μWatts)	30
Operating Temperature Range	See Table 2
Frequency Temperature Characteristics (in reference to 25 °C)	See Table 2



Table 1 Typical Frequencies

Frequency (MHz) • ESR	
19.200[ESR=70 Ω max]	26.000[ESR=50 Ω max]
38.400[ESR=50 Ω max]	

Thermistor (Standard)	
Resistance(R25)	100k Ω
B constant(B25-50)	4250K

Note:

Modified specifications are available upon request for specific applications.

Table 2 Frequency vs. Temperature Characteristics

Temperature Range	Stability (ppm)	Frequency Tolerance(ppm@25°C)
-30 to +85 °C	±12 max.	±10 max. (25 °C ± 3°C)

Outline Dimensions

