

## Resistance Welded Mini-49/S SMD

### Feature

- Surface mount type crystal units, High 2.0mm
- Higher frequency gullibility and lower equivalent series resistance
- Lower cost and highly mass production capability
- RoHS Compliant / Pb Free



### Electrical Specifications

Item	Specifications	
Frequency Range(MHZ)	8~20	20~32
Mode	AT/Fundamental	
Load Capacitance (CL)	8pF, 10pF, 12pF or Specify	
Frequency Tolerance( at 25°C )	±10ppm~±30ppm or specify	
Operating Temperature Range	-20~+70°C or Specify	
Frequency Stability Over Operating Temperature Range	±10ppm ~ ±30ppm or specify	
Equivalent Series Resistance (ESR) max.	60Ω	40Ω
Storage Temperature Range	-55~+125°C	
Shunt Capacitance( C <sub>0</sub> )	7.0 pF Max	
Drive Level (Typical)	1 μW~ 500 μW (100μW typical)	
Aging @25 °C 1st Year (Max)	±3 ppm/year or ± 5 ppm/year	

### Dimension(mm)

