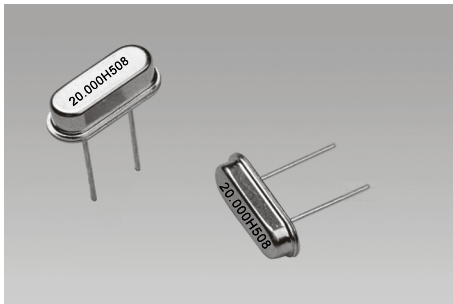


## • E49A Series DIP 49US Crystal



This part is a miniature AT cut strip crystal units with a low profile package. It is with resistance weld.

### FEATURES

- Low Cost
- Industry Standard
- Wide Frequency Range
- Excellent Aging

## Electrical Specifications

Type	E49A
Frequency Range	F0
Frequency Range	3.2~66.000MHz
Load Capacitance	CL
Load Capacitance	10pF to Series
Frequency Tolerance	$\Delta F / F_0$
Frequency Tolerance	$\pm 10\text{ppm}, \pm 30\text{ppm}, \pm 50\text{ppm}(\text{At } 25^\circ\text{C})$
Equivalent Series Resistance	ESR
Equivalent Series Resistance	See Table 1
Temperature Stability	TC
Temperature Stability	$\pm 10\text{ppm}, \pm 30\text{ppm}, \pm 50\text{ppm}(\text{Refer to } 25^\circ\text{C})$
Operating Temperature Range	TOPR
Operating Temperature Range	$-20\sim+70^\circ\text{C}, -30\sim+85^\circ\text{C}$ Option
Storage Temperature Range	TSTG
Storage Temperature Range	$-55\sim+125^\circ\text{C}$
Shunt Capacitance	C0
Shunt Capacitance	7pF max.
Insulator Resistance	IR
Insulator Resistance	500M $\Omega$ min. (At 100VDC)
Drive Level	DL
Drive Level	100 $\mu\text{W}$ (500 $\mu\text{W}$ max.)
Aging	Fa
Aging	$\pm 5\text{ppm}$ max. (At $25^\circ\text{C}$ , First year)
Packing Unit	
Packing Unit	200pcs/bag

**Table 1:Equivalent Series Resistance(ESR) and Mode of Vibration(Mode)**

Frequency Range(Mhz)	Max ESR( $\Omega$ )	Mode	Frequency Range(Mhz)	Max ESR( $\Omega$ )	Mode
3.200 to 4.499	150	Fundamental/AT	9.000 to 9.999	60	Fundamental/AT
4.500 to 5.999	120	Fundamental/AT	10.000 to 12.999	50	Fundamental/AT
6.000 to 6.999	100	Fundamental/AT	13.000 to 40.000	40	Fundamental/AT
7.000 to 7.999	90	Fundamental/AT	40.000 to 66.000	80	3 <sup>rd</sup> Overtone
8.000 to 8.999	80	Fundamental/AT			

*\*\*Please contact us for inquiries regarding other Specifications*

## Mechanical Dimensions(mm)

