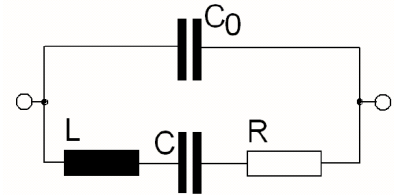


## Quartz Crystals

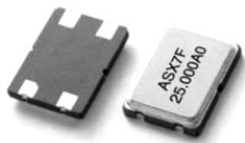
The oscillating crystal acts as electro-mechanic resonator within the circuit. As the resonance of the crystal is very stable over temperature and other environmental effects he is a good choice for your circuit.

### Possible Applications:

Digital Cellular Phone, Bluetooth, Wireless LAN, GPS, Notebook PC, Crystal Oscillators



### SMD Crystal



- seam sealed
- high frequency stability (to 10ppm)
- Excellent thermal hysteresis
- Excellent aging (down to 1ppm/year)

Type	Package (mm)	Frequency Range
ASX0F	2.0x1.6x0.5	24.0MHz to 50.0MHz
ASX2F	2.6x2.1x0.65	16.0MHz to 52.0MHz
ASX3F	3.4x2.7x0.75	12.0MHz to 52.0MHz
ASX4F	4.2x2.7x0.8	12.0MHz to 52.0MHz
ASX5	5.2x3.4x1.0	8.0MHz to 52.0MHz
ASX6	6.2x3.7x1.2	8.0MHz to 52.0MHz
ASX7F	7.2x5.2x1.2	6.0MHz to 48.0MHz

### SMD Crystal—based on HC49



- Metal welded package
- High heat/shock resistance
- Excellent aging (down to 5ppm/year)

Type	Package (mm)	Frequency Range
AS49SD	13.3x5.0x4.1	3.2MHz to 80.0MHz
AS49SSD	13.3x5.0x3.3	3.2MHz to 80.0MHz

### THT Crystal



- seam sealed
- high frequency stability (to 10ppm)
- Excellent thermal hysteresis
- Excellent aging (down to 1ppm/year)

Type	Package (mm)	Frequency Range
AS49SD	13.3x5.0x4.1	3.2MHz to 80.0MHz
AS49SSD	13.3x5.0x3.3	3.2MHz to 80.0MHz
AS49SS	11.5x5.0x2.7	3.2MHz to 80.0MHz
AS49S	11.5x5.0x3.6	3.2MHz to 80.0MHz
AS49U	11.05x4.66x13.2	1.0MHz to 100.0MHz
ASUM1	7.9x3.2x8.0	6.0MHz to 160.0MHz
ASUM1G	7.9x3.2x8.0	6.0MHz to 160.0MHz
ASUM5	7.9x3.2x6.0	6.0MHz to 160.0MHz

### Also available:

- ⇒ Quartz Crystal Oscillators (VCXO, TCXO, VCTCXO, OCXO)
- ⇒ Tuning Forks
- ⇒ SAW Components

