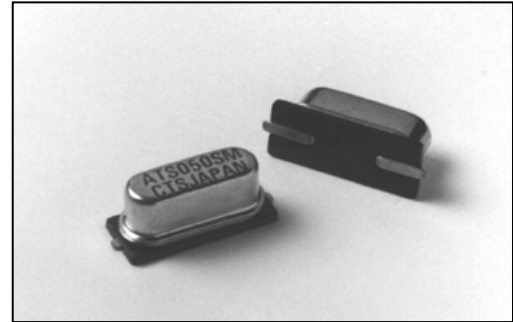


### Features:

- Frequency Range: 3.5 to 60 MHz
- Through Hole or Surface Mount
- Rugged Resistance Weld Seal
- Low Cost: AT-Cut Resonators
- Unique Frequencies or Tolerances also Available



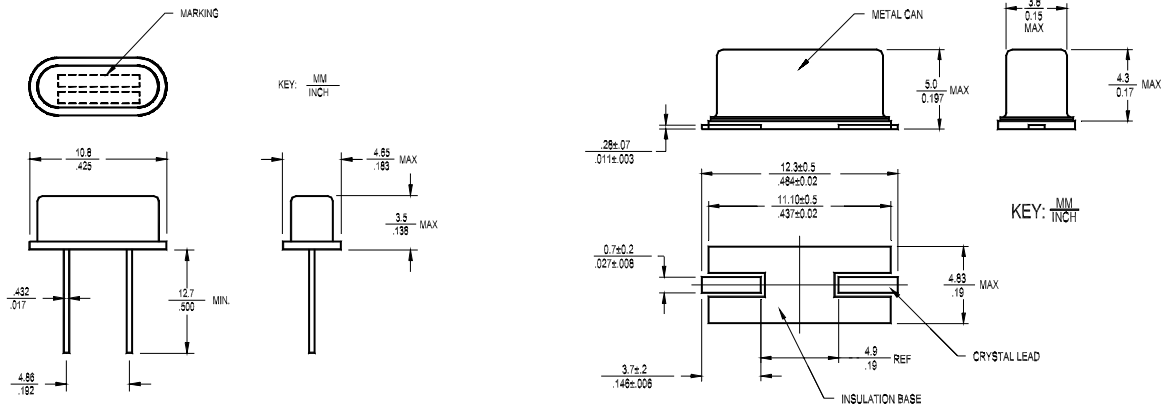
These low profile AT-Cut crystals are ideal for dense board layouts or tight headroom limits. These rugged (metal can) resistance weld seal parts have the same favorable temperature stability as the full size MP-Series crystals and are available bulk packed or tape-and-reel loaded.

### Electrical Specifications:

Parameter	Specification
Frequency Range	3.5 - 60 MHz
Calibration Tolerance	±0.003% (±30 ppm) at + 25°C
Temperature Stability	±0.005% (±50 ppm) Ref. + 25°C reading
Operating Temperature Range	-20°C to +70°C (Std.) or -40°C to +85°C
Operating Mode	Fundamental (or 3 <sup>rd</sup> O.T. as applicable)
Drive Level	100 Microwatts
Shunt Capacitance	7pF, Max
Aging	<5 ppm/Yr.

### Example Part Numbers:

PART NUMBER	FREQUENCY (MHz)	LOAD/SERIES	PART NUMBER	FREQUENCY (MHz)	LOAD/SERIES	PART NUMBER	FREQUENCY (MHz)	LOAD/SERIES
ATS036	3.579545	18pF	ATS08ASM	8.000000	20pF	ATS08ASM	8.000000	20pF
ATS036SM	3.579545	18pF	ATS098	9.830400	20pF	ATS143SM	14.318180	SERIES
ATS037	3.686400	20pF	ATS098SM	9.830400	20pF	ATS15A	15.360000	20pF
ATS037SM	3.686400	20pF	ATS10ASM	10.000000	20pF	ATS15ASM	15.360000	20pF
ATS040	4.000000	20pF	ATS100	10.000000	SERIES	ATS160	16.000000	SERIES
ATS040SM	4.000000	20pF	ATS100SM	10.000000	SERIES	ATS160SM	16.000000	SERIES
ATS042	4.915200	20pF	ATS111	11.059200	20pF	ATS200	20.000000	SERIES
ATS042SM	4.915200	20pF	ATS111SM	11.059200	20pF	ATS200SM	20.000000	SERIES
ATS050	5.068800	20pF	ATS120	12.000000	SERIES	ATS204	20.480000	20pF
ATS050SM	5.068800	20pF	ATS120SM	12.000000	SERIES	ATS204SM	20.480000	20pF
ATS060	6.000000	20pF	ATS122	12.288000	20pF	ATS245	24.576000	SERIES
ATS060SM	6.000000	20pF	ATS122SM	12.288000	20pF	ATS245SM	24.576000	SERIES
ATS08A	8.000000	20pF	ATS143	14.318180	SERIES			



## Mechanical/Environmental Specifications

### Package Type:

Metal cover; hermetic seal base  
resistance weld seal

### Leak Test

$<2 \times 10^{-8}$  cc-atm/sec

### Storage Temperature:

-40 to +85°C

### Insulation Resistance:

500 Mohm min @ 100V

### Solder Reflow Capability:

+260°C for 10 seconds Maximum

## Ordering Information

A complete part number looks like:

ATS \_\_\_\_\_ - \*\_\_\_ for the through hole part, or

ATS \_\_\_\_\_ -SM \*\_\_\_ for the Surface Mount part

\* Optional Suffix codes are:

“INS” = Insulating Spacer (ATS Only)

“T” = Tape and Reel Packaging

“L” = Trimmed Leads

“W” = Trimmed Leads and Insulating Spacer

Custom frequencies specified upon request. Contact CTS for more information