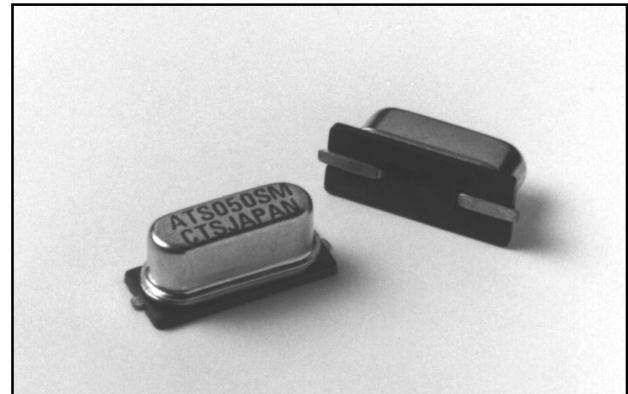


Features:

- Frequency Range 3.5 to 60 MHz
- Thru Hole or Surface Mount
- Rugged Resistance Weld Seal
- Standard Frequencies Stocked by CTS Distributors
- Small Package Size



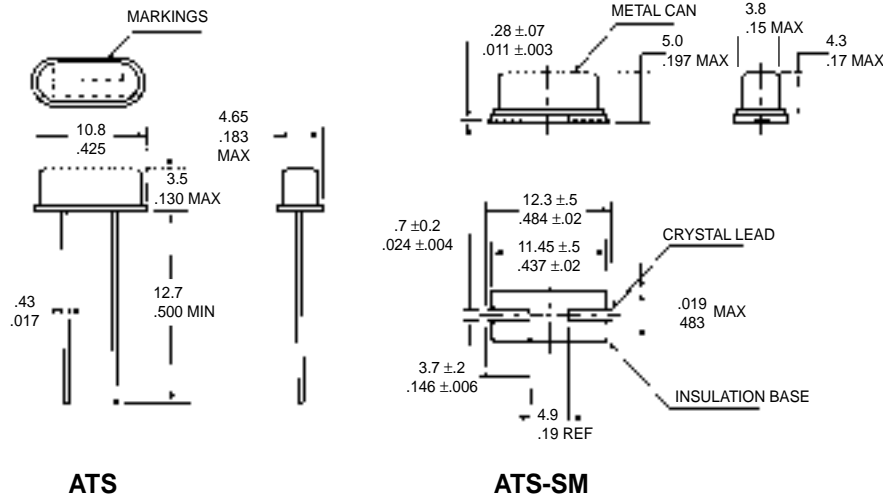
These low profile At-Cut crystals are ideal for dense board layouts or tight headroom limits. These rugged (metal can) resistance weld seal parts have the same favorable temperature stability as the full size MP-Series crystals and are available bulk packed or tape-and-reel loaded.

Electrical Specifications:

<i>Parameter</i>	
Frequency Range	3.5 - 60.0 MHz
Calibration Tolerance	±0.005% (±50 ppm)
Temperature Stability	±0.005% (±50 ppm) at +25°C reading
Operating Temperature Range	-0°C to +70°C
Operating Mode	Fundamental (overtone available)
Drive Level	100 Microwatts
Shunt Capacitance	7 pF, Max
Aging	<5 ppm/Yr

Standard 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			

**Outline Drawing -
 Solder Pad Dimensions:**

Mechanical/Environmental Specifications
Package type:

Metal cover; hermetic seal base,
 resistance weld seal

Storage Temperature:

-40 to +85°C

Solderability

63Sn/37Pb solder, 5 sec. @ 245°C using
 RMA flux; 95% coverage, minimum

Leak test

<2x10⁻⁸cc-atm/sec

Insulation Resistance:

500 Mohm min

Ordering Information:

A complete part number looks like:

ATS ___ ___ ___ * for the Thru Hole part, or

ATS ___ ___ ___ SM * for the Surface Mount part

Select from the "Standard Frequencies" Table

Optional Suffix codes are:

- "S" = Insulating spacer (ATS-only)
- "1" = Surface Mount Tape and Reel packaging (see "Tape and Reel" page for tape dimensions)
- "2" = Axial Tape and Reel packaging (for Through hole)
- "L" = Trimmed leads
- "W" = Trimmed leads and insulating spacer

Custom frequencies specified upon request. Contact CTS Reeves for more information.