



FEATURES

- Standard HC-49/US [thru-hole] and HC-49/US-SM [surface mount] Packages
- Stable Frequency Over Temperature and Drive Level
- **Fundamental and 3rd Overtone Crystals**
- Frequency Range 3.2 – 64 MHz
- Frequency Tolerance, ±30 ppm Standard
- Frequency Stability, ±50 ppm Standard
- Operating Temperature, -20°C to +70°C Standard, -40°C to +85°C Available
- Tape & Reel Packaging Available
- **RoHS/Green Compliant [6/6]**

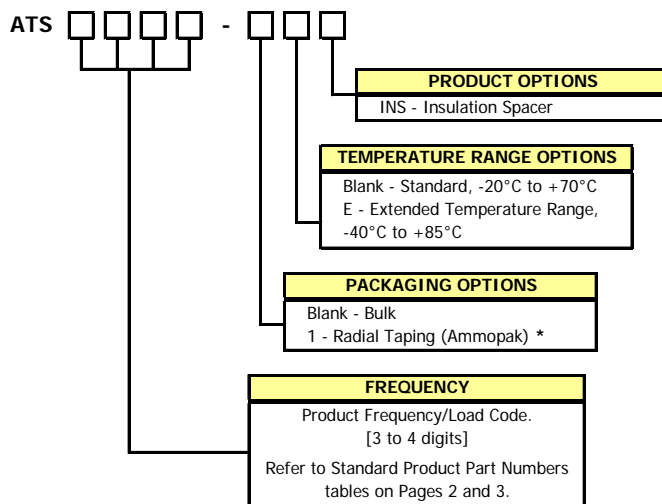


APPLICATIONS

The ATS/ATS-SM crystal series offers excellent long-term stability and reliability in a proven resistance-weld metal package. The excellent shock performance makes it suitable for microprocessor, telecommunication, industrial, consumer electronics and networking applications.

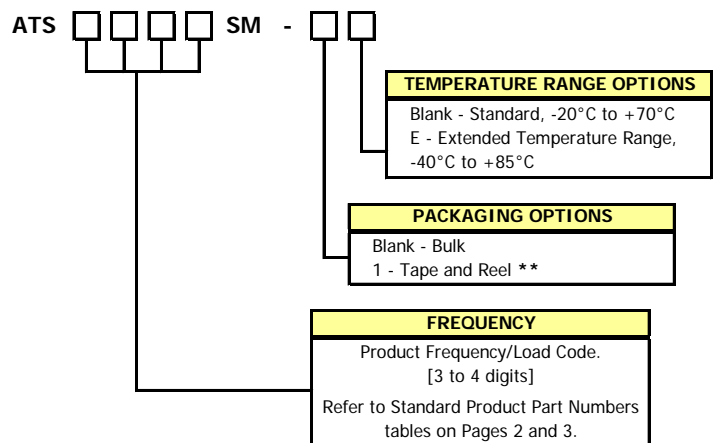
ORDERING INFORMATION

ATS



* Standard packaging is bulk in a bag.

ATS-SM

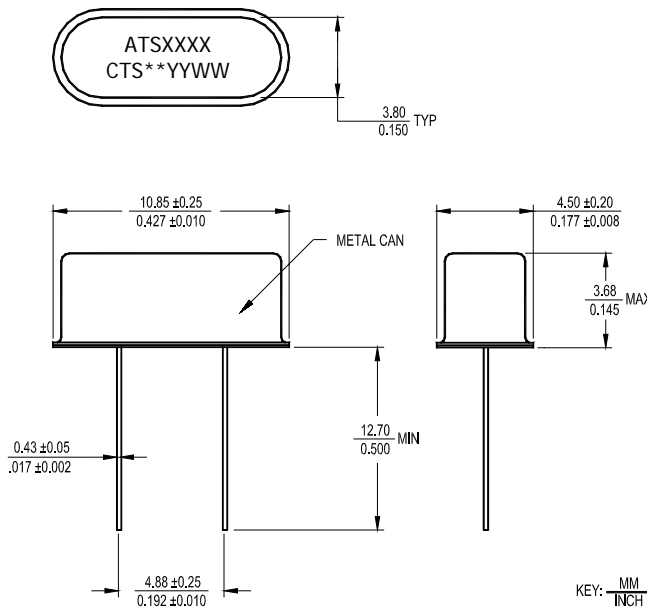


** Standard packaging is tape and reel.
CTS Distributors may use -T for tape and reel indicator.

Non-Standard Ordering Options

- Contact your local CTS Representative or CTS Inside Sales Representative for assistance.

ATS PACKAGE DRAWING



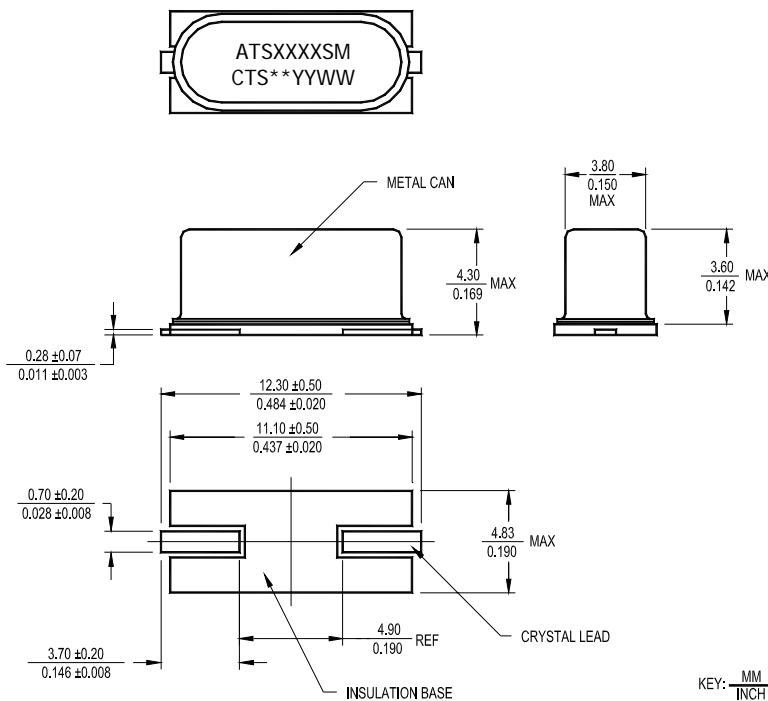
MARKING INFORMATION

1. ATXXXX - CTS Part Number.
 - a) The package code "1" is not required in the marking.
 - b) The -E is required in the marking for extended temperature range parts.
[See Standard Product Part Numbers tables.]
2. ** - Manufacturing Site Code.
3. YYWW - Date Code, YY - year, WW - week.
4. Complete CTS part number, frequency value and date code information must appear on bag and box labels.

NOTES

1. Lead finish (e1), SnAgCu.
2. MSL = 1.

ATS-SM PACKAGE DRAWING



MARKING INFORMATION

1. ATXXXXSM - CTS Part Number.
 - a) The package code "1" is not required in the marking.
 - b) The -E is required in the marking for extended temperature range parts.
[See Standard Product Part Numbers tables.]
2. ** - Manufacturing Site Code.
3. YYWW - Date Code, YY - year, WW - week.
4. Complete CTS part number, frequency value and date code information must appear on bag and box labels.

NOTES

1. Lead finish (e1), SnAgCu.
2. MSL = 1.

SUGGESTED SOLDER PAD GEOMETRY

