

90SMX(SH) CRYSTALS 9mm x 3.8mm x 2.5mm

DESCRIPTION

90SMX(SH) crystals utilize the standard 90SMX package but with AT-Cut crystal blanks, providing a compact crystal with the frequency range of 12MHz to 40MHz. The crystals have a low-profile and are manufactured in epoxy resin.

FEATURES

- Frequency 12MHz to 40MHz
- Industry-standard package
- · Compact and low-profile: 9.0mm x 3.8mm x 2.5 mm
- · Supplied in standard EIA 16mm tape and reel

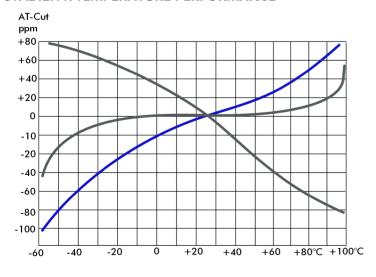
GENERAL SPECIFICATION

| Frequency Range: | 12.0MHz to 40.0MHz | |
|---------------------------------|-------------------------------|--|
| Calibration Tolerance at 25°C*: | ±50ppm | |
| Mode: | Fundamental | |
| Temperature Stability: | ±50ppm over -20° to +70°C | |
| Shunt Capacitance: | 5pF maximum | |
| Load Capacitance: | 12.5pF to 35pF | |
| | (Customer specified.) | |
| Drive Level: | 100mW maximum | |
| Ageing: | ±3ppm in first year at 25°C | |
| Crystal Cut: | AT-Cut | |
| Reflow Soldering: | 10s max. at +235°C ±5°C | |
| Packaging: | Tape and Reel (EIA 16mm tape) | |

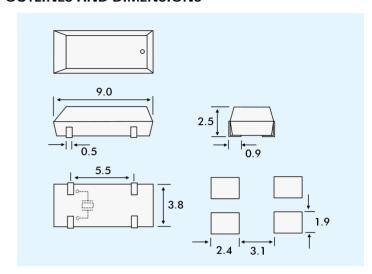
OSCILLATION MODE & ESR

| Frequency (MHz) | Crystal Cut Oscillation Mode | ESR (max) (Ohms) |
|--------------------|---------------------------------|---------------------|
| 12.0 ~ 16.667 | AT Fund. | 80 |
| 16.668 ~ 23.999 | AT Fund. | 60 |
| 24.0 ~ 40.0 | AT Fund. | 50 |

STABILITY/TEMPERATURE PERFORMANCE

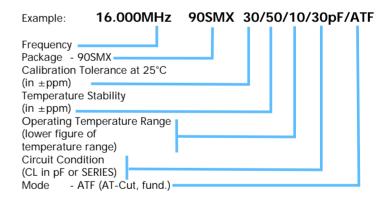


OUTLINES AND DIMENSIONS



PART NUMBER GENERATION

90SMX(SH) crystal part numbers are derived as follows:



Tel: +44 1460 230000 Fax: +44 1460 230001 email: info@euroquartz.co.uk web: www.euroquartz.co.uk