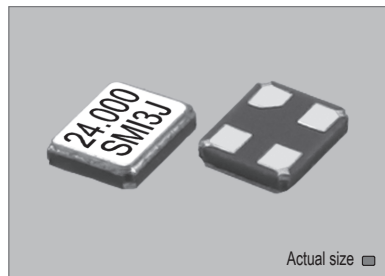
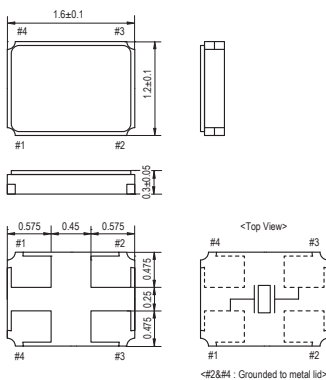


11SMX

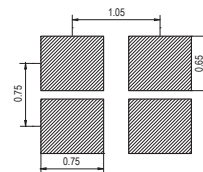


Actual size
0.0018 gm (wt.)

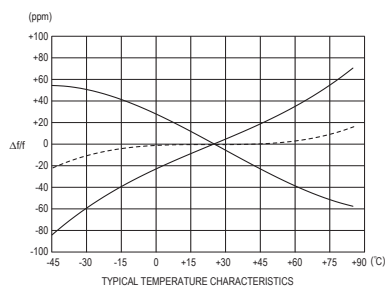
11SMX



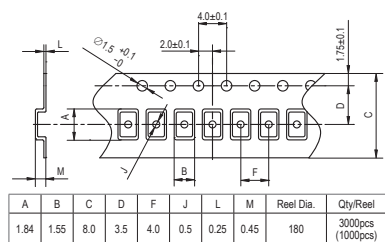
SOLDERING PATTERN



AT-CUT



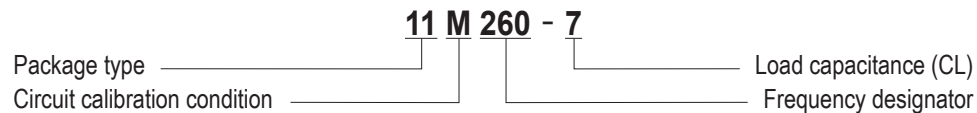
TAPE SPECIFICATIONS



STANDARD SPECIFICATIONS

| Item | Specifications |
|---|------------------------------------|
| Package type | 11SMX |
| Frequency range | 24.000 MHz to 80.000 MHz |
| Frequency tolerance | ±30 ppm at +25°C ±3°C |
| Temperature stability (referred to +25°C) | ±30 ppm over -20°C to +70°C |
| Load capacitance (CL) | 7 pF, Typical |
| Shunt capacitance (C0) | 5 pF max. |
| Drive level (P) | 100 μW max. (10 μW for testing) |
| Aging | ±5 ppm max. at +25°C ±3°C per year |
| Cut / Oscillation mode | AT-Cut / Fundamental |
| Reflow condition | 10 seconds max. at +250°C ±10°C |

PART NUMBERING GUIDE



Example

| SMI Part No. | Package | Circuit Calibration Condition | Frequency |
|--------------|------------|-------------------------------------|------------------|
| 11M260-7 | 11 = 11SMX | M = Parallel resonance CL = 7 pF | 260 = 26.000 MHz |
| 11S384 | 11 = 11SMX | S = Series resonance | 384 = 38.400 MHz |

PACKAGE DATA

| Item | Package | 11SMX |
|------------------|---------|-----------------------------------|
| Lid | | Metal |
| Base | | Ceramic |
| Sealing | | Seam |
| Terminal | | Tungsten (metalized) |
| Terminal plating | | Gold / Nickel (surface) / (under) |
| RoHS | | Compliant (Pb-free) |

11SMX STANDARD FREQUENCIES

| Frequency MHz | Frequency Designator | Max. Equivalent Series Resistance Ohms (Ω) ESR |
|---------------|----------------------|--|
| 24.000000 | 240 | 150 |
| 26.000000 | 260 | 150 |
| 32.000000 | 320 | 100 |
| 36.000000 | 360 | 100 |
| 38.400000 | 384 | 80 |
| 40.000000 | 400 | 80 |
| 48.000000 | 480 | 80 |