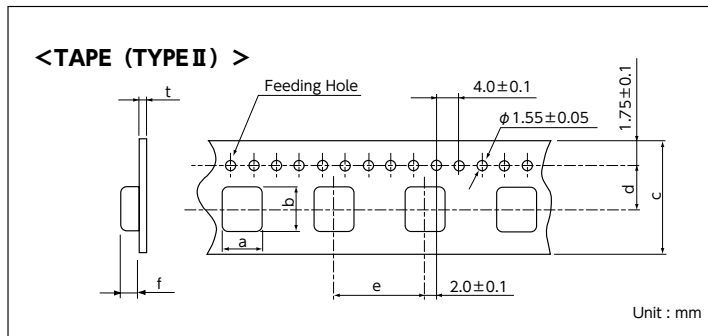
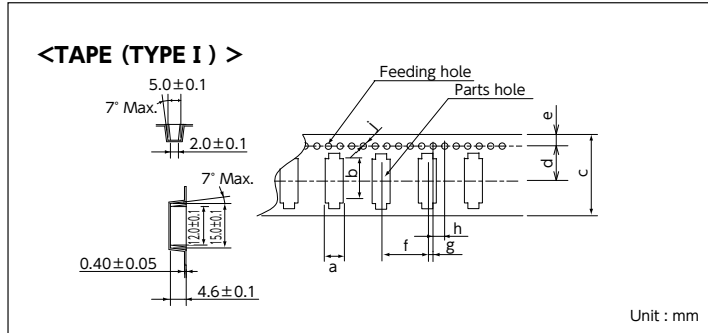
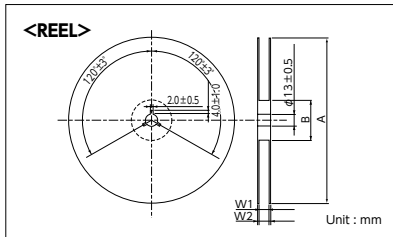


# Emboss Carrier Tape (SMD Crystal Resonators)



## Standard Specification

| TYPE I | a           | b            | c            | d            | e             | f           | g           | h           | j              | A          | B         | W1           | W2           |
|--------|-------------|--------------|--------------|--------------|---------------|-------------|-------------|-------------|----------------|------------|-----------|--------------|--------------|
| SMD-49 | 5.0<br>±0.1 | 12.0<br>±0.1 | 24.0<br>±0.3 | 11.5<br>±0.1 | 1.75<br>±0.10 | 8.0<br>±0.1 | 2.0<br>±0.1 | 4.0<br>±0.1 | 1.5<br>+0.1/-0 | φ330<br>±2 | φ80<br>±1 | 25.5<br>±1.0 | 29.5<br>±1.0 |

### MHz Band Crystal Resonators / Crystal Resonators with dedicated temperature sensor

| TYPE II                  | a             | b             | c                | d             | e           | f             | t             | A             | B              | W1           | W2           |
|--------------------------|---------------|---------------|------------------|---------------|-------------|---------------|---------------|---------------|----------------|--------------|--------------|
| DSX530GA/GK              | 3.6<br>±0.1   | 5.45<br>±0.10 | 12.0<br>±0.2     | 5.50<br>±0.10 | 8.0<br>±0.1 | 1.55<br>±0.10 | 0.30<br>±0.05 | φ180<br>+0/-3 | φ60<br>+1.0/-0 | 13.0<br>+0.3 | 15.4<br>±1.0 |
| DSX321G/GK<br>DSX320G/GE | 2.8<br>±0.1   | 3.5<br>±0.1   | 8.0<br>±0.2      | 3.50<br>±0.05 | 4.0<br>±0.1 | 1.0<br>±0.1   | 0.25<br>±0.05 | φ180<br>+0/-3 | φ60<br>+1/-0   | 9.0<br>±0.3  | 11.4<br>±1.0 |
| DSX321SH                 | 2.7<br>±0.1   | 3.4<br>±0.1   | 8.0<br>±0.2      | 3.50<br>±0.05 | 4.0<br>±0.1 | 1.4<br>±0.1   | 0.25<br>±0.05 | φ180<br>+0/-3 | φ60.0<br>+1/-0 | 9.0<br>±0.3  | 11.4<br>±1.0 |
| DSX221G                  | 2.3<br>±0.1   | 2.8<br>±0.1   | 8.0<br>±0.2      | 3.5<br>±0.05  | 4.0<br>±0.1 | 1.0<br>±0.1   | 0.25<br>±0.05 | φ180<br>+0/-3 | φ60<br>+1/-0   | 9.0<br>±0.3  | 11.4<br>±1.0 |
| DSX221SH                 | 2.25<br>±0.1  | 2.7<br>±0.1   | 8.0<br>±0.2      | 3.50<br>±0.05 | 4.0<br>±0.1 | 0.8<br>±0.05  | 0.25<br>±0.05 | φ180<br>+0/-3 | φ60.0<br>+1/-0 | 9.0<br>±0.3  | 11.4<br>±1.0 |
| DSX211S/SH               | 1.9<br>±0.1   | 2.3<br>±0.1   | 8.0<br>±0.2      | 3.50<br>±0.05 | 4.0<br>±0.1 | 0.65<br>±0.10 | 0.25<br>±0.05 | φ180<br>+0/-3 | φ60.0<br>+1/-0 | 9.0<br>±0.3  | 11.4<br>±1.0 |
| DSX211G                  | 1.85<br>±0.10 | 2.25<br>±0.10 | 8.0<br>±0.2      | 3.50<br>±0.05 | 4.0<br>±0.1 | 0.95<br>±0.10 | 0.25<br>±0.05 | φ180<br>+0/-3 | φ60<br>+1/-0   | 9.0<br>±0.3  | 11.4<br>±1.0 |
| DSX210GE                 | 2.0<br>±0.1   | 2.4<br>±0.1   | 8.0<br>±0.2      | 3.50<br>±0.05 | 4.0<br>±0.1 | 0.95<br>±0.1  | 0.25<br>±0.05 | φ180<br>+0/-3 | φ60<br>+1/-0   | 9.0<br>±0.3  | 11.4<br>±1.0 |
| DSX1612S/SL              | 1.45<br>±0.15 | 1.85<br>±0.15 | 8.0<br>±0.2      | 3.50<br>±0.05 | 4.0<br>±0.1 | 0.45<br>±0.15 | 0.25<br>±0.05 | φ180<br>+0/-3 | φ60<br>+1/-0   | 9.0<br>±0.3  | 11.4<br>±1.0 |
| DSX1210A                 | 1.17<br>±0.05 | 1.42<br>±0.05 | 8.0<br>+0.3/-0.1 | 3.50<br>±0.05 | 4.0<br>±0.1 | 0.48<br>±0.05 | 0.20<br>±0.05 | φ180<br>+0/-3 | φ60<br>+1/-0   | 9.0<br>±0.3  | 11.4<br>±1.0 |
| DSX1008A<br>DX1008JS     | 1.0<br>±0.05  | 1.2<br>±0.05  | 8.0<br>±0.2      | 3.50<br>±0.05 | 4.0<br>±0.1 | 0.45<br>±0.05 | 0.20<br>±0.05 | φ180<br>+0/-3 | φ60<br>+1/-0   | 9.0<br>±0.3  | 11.4<br>±1.0 |
| DSR2215TH                | 2.25<br>±0.1  | 2.7<br>±0.1   | 8.0<br>±0.2      | 3.50<br>±0.05 | 4.0<br>±0.1 | 1.15<br>±0.10 | 0.25<br>±0.05 | φ180<br>+0/-3 | φ60<br>+1/-0   | 9.0<br>±0.3  | 11.4<br>±1.0 |
| DSR211ATH/STH            | 1.85<br>±0.1  | 2.25<br>±0.1  | 8.0<br>±0.2      | 3.50<br>±0.05 | 4.0<br>±0.1 | 0.95<br>±0.10 | 0.25<br>±0.05 | φ180<br>+0/-3 | φ60<br>+1/-0   | 9.0<br>±0.3  | 11.4<br>±1.0 |
| DSR1612ATH               | 1.40<br>±0.1  | 1.80<br>±0.1  | 0.70<br>±0.1     | 3.50<br>±0.05 | 4.0<br>±0.1 | 0.70<br>±0.10 | 0.20<br>±0.05 | φ180<br>+0/-3 | φ60<br>+1/-0   | 9.0<br>±0.3  | 11.4<br>±1.0 |
| DSR1210ATH               | 1.3<br>±0.1   | 1.5<br>±0.1   | 8.0<br>±0.2      | 3.5<br>±0.05  | 4.0<br>±0.1 | 0.4<br>±0.15  | 0.25<br>±0.05 | φ180<br>+0/-3 | φ60<br>+1/-0   | 9.0<br>±0.3  | 11.4<br>±1.0 |

### kHz Band Crystal Resonators

|                    |               |               |                  |               |             |               |               |               |              |              |              |
|--------------------|---------------|---------------|------------------|---------------|-------------|---------------|---------------|---------------|--------------|--------------|--------------|
| DMX-26S            | 4.1<br>±0.1   | 8.5<br>±0.1   | 16.0<br>±0.3     | 7.5<br>±0.1   | 8.0<br>±0.1 | 2.7<br>±0.1   | 0.30<br>±0.05 | φ330<br>±2    | φ80<br>±1    | 17.5<br>±1.0 | 21.5<br>±1.0 |
| DST310S<br>DST311S | 1.70<br>±0.05 | 3.40<br>±0.05 | 12.0<br>±0.2     | 5.50<br>±0.05 | 4.0<br>±0.1 | 0.95<br>±0.05 | 0.25<br>±0.05 | φ180<br>+0/-3 | φ60<br>+1/-0 | 13.0<br>±0.3 | 15.5<br>±1.0 |
| DST210AC           | 1.45<br>±0.1  | 2.3<br>±0.1   | 8.0<br>±0.2      | 3.50<br>±0.05 | 4.0<br>±0.1 | 0.65<br>±0.10 | 0.20<br>±0.05 | φ180<br>+0/-3 | φ60<br>+1/-0 | 9.0<br>±0.3  | 11.4<br>±1.0 |
| DST1610A           | 1.28<br>±0.05 | 1.79<br>±0.05 | 8.0<br>+0.3/-0.1 | 3.50<br>±0.05 | 4.0<br>±0.1 | 0.65<br>±0.10 | 0.20<br>±0.05 | φ180<br>+0/-3 | φ60<br>+1/-0 | 9.0<br>±0.3  | 11.4<br>±1.0 |
| DST1610AL          | 1.35<br>±0.05 | 1.85<br>±0.05 | 8.0<br>+0.3/-0.1 | 3.50<br>±0.05 | 4.0<br>±0.1 | 0.4<br>±0.10  | 0.20<br>±0.05 | φ180<br>+0/-3 | φ60<br>+1/-0 | 9.0<br>±0.3  | 11.4<br>±1.0 |
| DST1210A           | 1.17<br>±0.05 | 1.42<br>±0.05 | 8.0<br>+0.3/-0.1 | 3.50<br>±0.05 | 4.0<br>±0.1 | 0.48<br>±0.05 | 0.20<br>±0.05 | φ180<br>+0/-3 | φ60<br>+1/-0 | 9.0<br>±0.3  | 11.4<br>±1.0 |

\*1: To indicate product name and other information, place those information on a label, and affix the label on one side of the flange.

2: For DSX321G, DSX221G, DSX1612S, DSX1612SL pin No.1 is located on the sprocket-hole side of the tape.

3: For other models, the insertion direction is not specified.