

# SHOULDER

## SMD0503(4P & 2P) Crystal



### ELECTRICAL SPECIFICATION

Frequency Range	8.0000 to 110.000 MHz
Load Capacitance	10pF to series
Frequency Tolerance (at 25°C)	±30ppM Maximum
Oscillation Mode	Fundamental, Third Overtone
Frequency Stability in Temperature	±30ppM Maximum
Operating Temperature Range	-20°C to +70°C Standard (or Optional)
Storage Temperature Range	-40°C to +85°C
Equivalent Series Resistance (ESR)	See ESR Table
Drive Level	10~100uW
Shunt Capacitance	7pF Maximum
Aging (at 25°C)	±3ppM per year
Insulation Resistance	500 MOhm Minimum

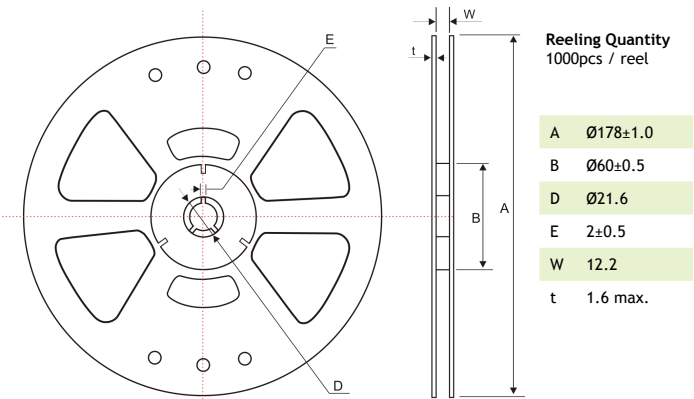
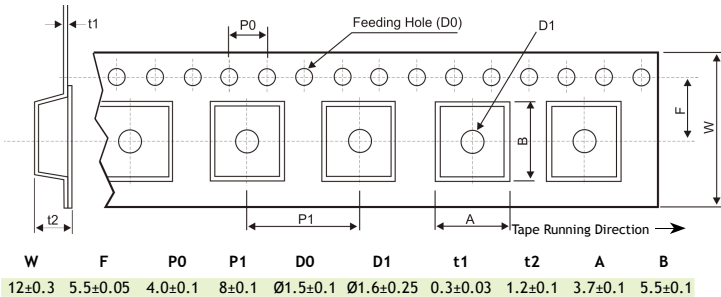
### FREQUENCY RANGE AND OSCILLATION MODE

Fundamental (F)	8.0000 to 40.000MHz
Third Overtone (3OT)	40.000 to 110.000MHz

### ESR TABLE (Ohms)

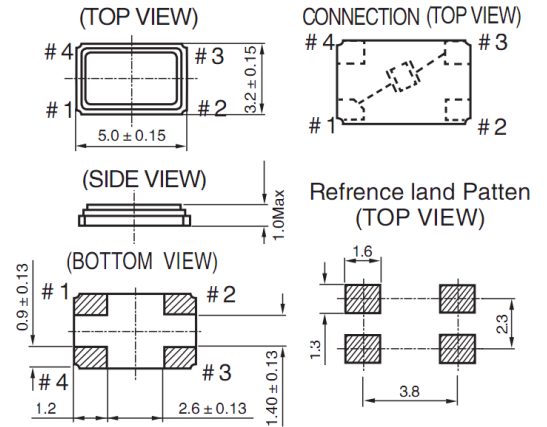
8.0000 to 12.000MHz	100Max
12.000 to 16.000MHz	80Max
16.000 to 20.000MHz	70Max
20.000 to 24.000MHz	60Max
24.000 to 40.000MHz	50Max
40.000 to 110.000MHz	80Max

### TAPE SPECIFICATIONS (all in mm) - Carrier Tape Dimensions

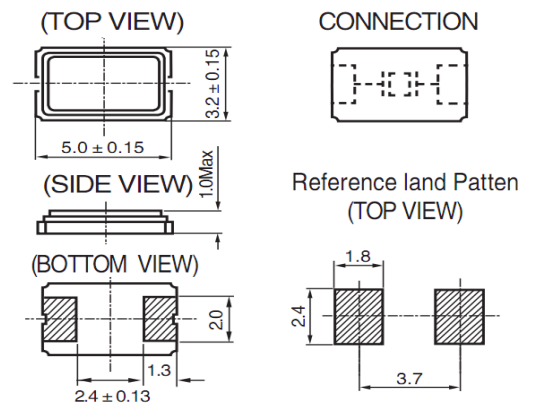


### MECHANICAL DIMENSIONS (all in mm)

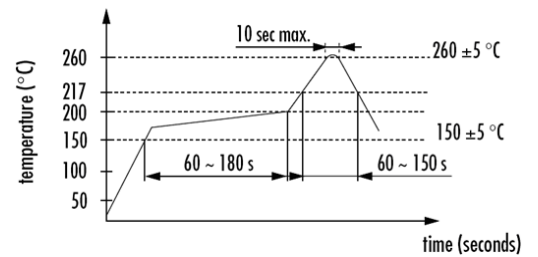
#### 4Pads:



#### 2Pads:



### SOLDERING



### PART NUMBERING SYSTEM (Example)

#### SMD0503-11.0592-F-20-30-30-A-T-4P

