

ELECTRICAL SPECIFICATION

Frequency Range	12.0000 to 50.000 MHz
Load Capacitance	8pF to 32pF or series
Frequency Tolerance (at 25°C)	±30ppm Maximum
Oscillation Mode	Fundamental
Frequency Stability in Temperature	±50ppm 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	1.0mW Maximum
Shunt Capacitance	7pF Maximum
Aging (at 25°C)	±3ppm per year
Insulation Resistance	500 MOhm Minimum

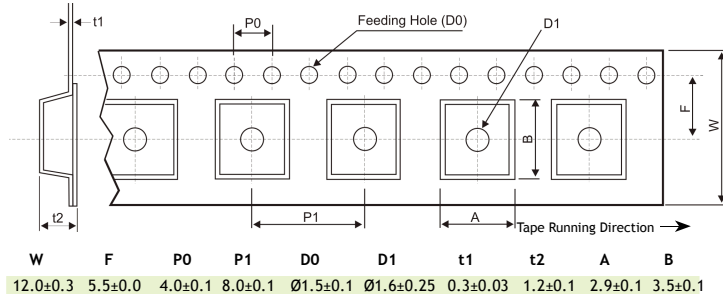
FREQUENCY RANGE AND OSCILLATION MODE

Fundamental (F)	12.0000 to 50.000MHz
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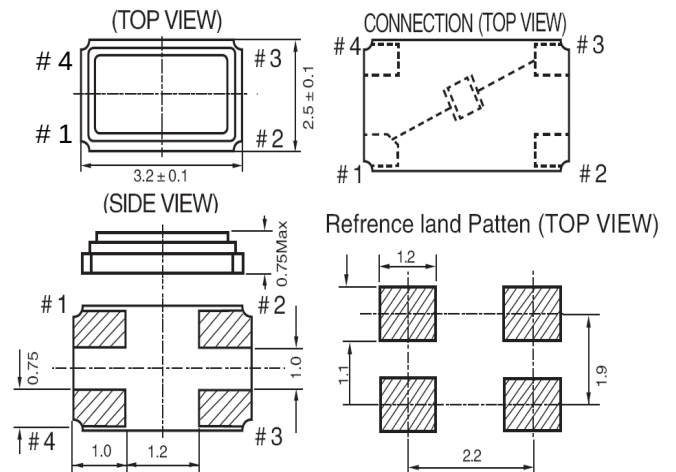
ESR TABLE (Ohms)

12.000 to 16.000MHz	100Max
16.000 to 20.000MHz	80Max
20.000 to 24.000MHz	60Max
24.000 to 50.000MHz	50Max

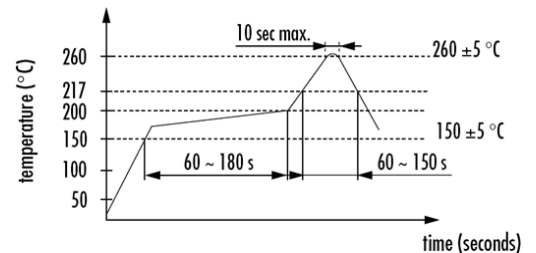
TAPE SPECIFICATIONS (all in mm) - Carrier Tape Dimensions



MECHANICAL DIMENSIONS (all in mm)



SOLDERING



PART NUMBERING SYSTEM (Example)

SMD3225-14.7456-F-20-30-30-A-T

Hold Type

SMD0705 / SMD3225 / SMD1612 / SMD0503 / SMD0603 / SMD2016 / 495-SMD / 4952-SMD

Nominal Frequency (MHz)

Enter the nominal frequency (3 digits after dot) or up to last significant digit different than zero)

Mode of Operation (Vibration Mode)

F= Fundamental

T= 3rd Overtone

Load Capacitance

S-Series Resonant or enter load capacitance 8 to 32 for parallel

Options (can be blank)
S= Standard
X= Additional Specifications
T= Tape and Reel

Operating Temperature Range (°C)

A= -20°C to 70°C

B= -10°C to 60°C

C= 0°C to 50°C

D= -30°C to 80°C

E= -40°C to 85°C

Frequency Stability (± ppm)

Frequency Tolerance (± ppm)