

SMD QUARTZ CRYSTAL SERIES SMD02502

FEATURES

- Tight tolerance / tight stability available
- High reliability for low cost
- Low profile – 0.6 mm package height
- Ultra miniature size and lightweight
- Excellent clock signal generator for CPU's

Pb free
 RoHS-2 2011/65/EU
 compliant

GENERAL DATA

SMD-CRYSTAL SERIES	SMD02502/4 (2.5x2.0x0.6mm)
NUMBER OF SOLDER PADS	4
FREQUENCY RANGE	12.0 ~ 125.0 MHz AT-Fundamental (please ask if your required frequency is developed)
FREQUENCY TOLERANCES AT 25°C	±10 ppm ~ ±50 ppm
LOAD CAPACITANCE (C _L)	Series, 8 pF, 10 pF, 12 pF (other C _L on request)
WORKING TEMPERATURE RANGES	0/+50°C ~ -40/+85°C
SHUNT CAPACITANCE C ₀	7 pF max.
DRIVE LEVEL	10 µW typical (100 µW max.)
AGING	±3 ppm per year standard (±1 or ±2 ppm available on request)
INSULATION RESISTANCE	>500 MΩ DC/100V ±10%
STORAGE TEMPERATURE	-55°+125°C
DELIVERY FORM	Tape and Reel (3.000 pcs per reel)
OTHER PARAMETERS ARE AVAILABLE ON REQUEST / CREATE HERE YOUR SPECIFICATION	

FREQUENCY STABILITY VS. TEMPERATURE

	±8pm	±10pm	±12pm	±15pm	±20pm	±30pm	±50pm
0°/+50°C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-10°/+60°C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0°/+70°C	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-20°/+70°C		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
-40°/+85°C				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

CRYSTALS

OSCILLATORS

CERAMIC RESONATORS



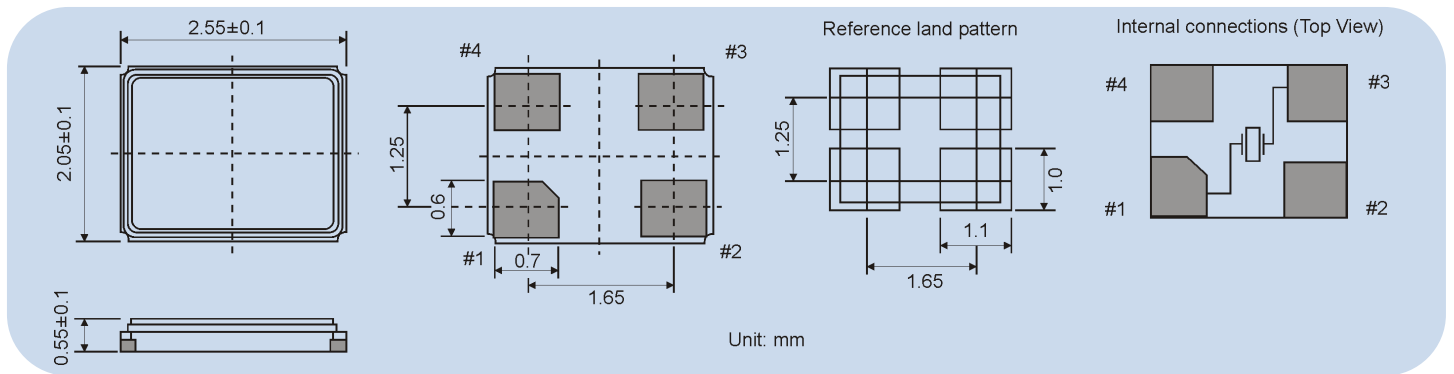
Premium Quality by
 PETERMANN-TECHNIK

CERAMIC FILTERS

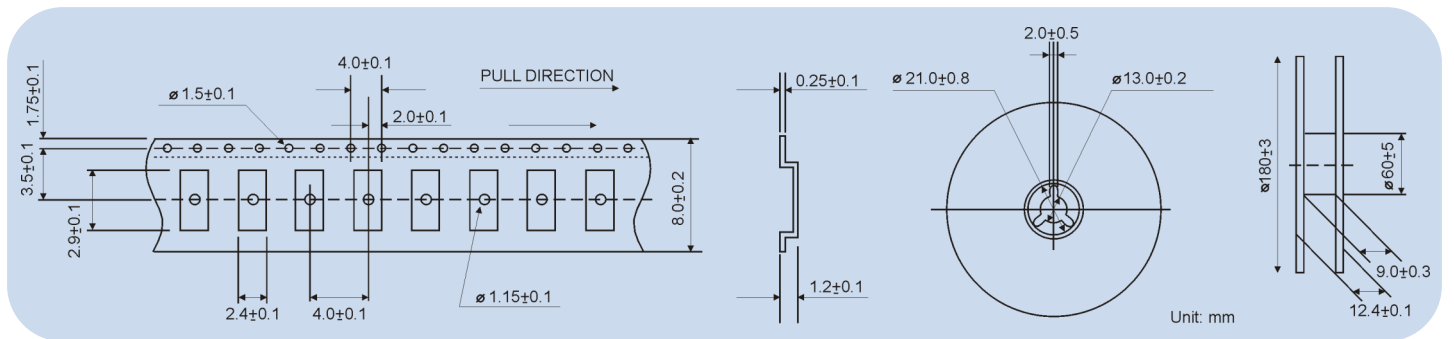
SAW COMPONENTS

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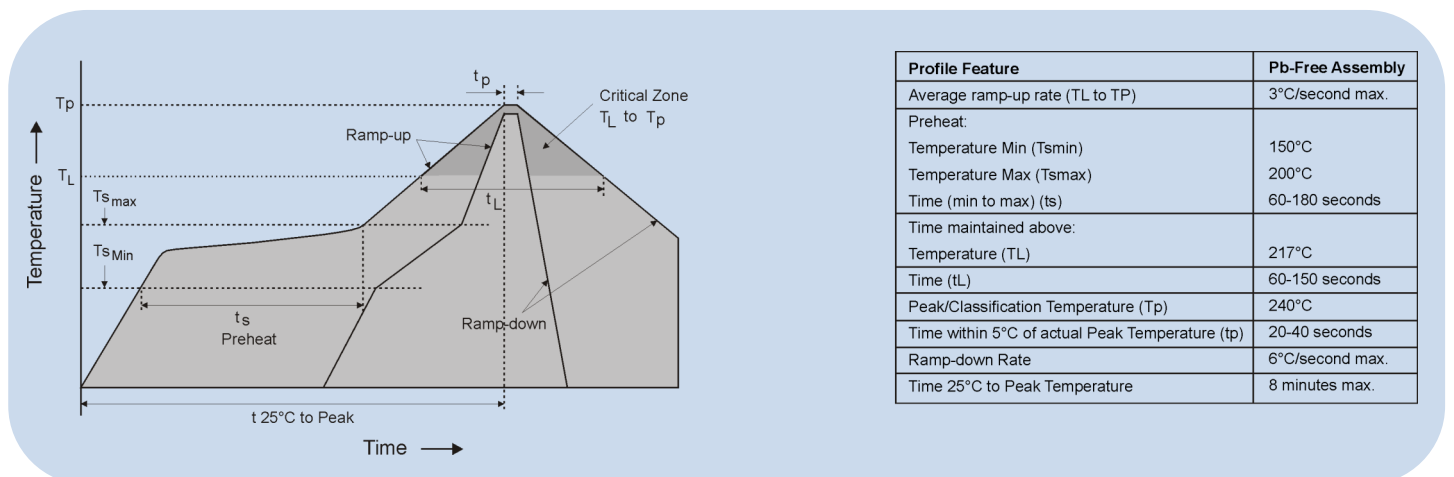
DIMENSIONS



REEL SPECIFICATION



REFLOW SOLDER PROFILE



CRYSTALS
OSCILLATORS
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ORDERING INFORMATION

Series	Frequency	Frequency Stability at 25°C	Temperature Stability	Temperature Range	Load Capacitance
SMD02502/4	60.000 MHz	10	15	-40+85°C	10 pF

Example: SMD02502/4 60.000 MHz 10/15/-30+85/10pF
 PLEASE INDICATE YOUR REQUIRED PARAMETERS

RESONANCE RESISTANCE

Frequency in MHz	Vibration mode	ESR max. in Ω
12 MHz	AT Fund.	200
13.0 ~ 16.0 MHz	AT Fund.	100
16.0 ~ 20.0 MHz	AT Fund.	80
20.0 ~ 30.0 MHz	AT Fund.	60
30.0 ~ 100.0 MHz	AT Fund.	40

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