



SMD QUARTZ CRYSTAL SERIES SMD0503/2CC

FEATURES

- High reliability for low cost
- Cheapest available 5.0x3.2 mm crystal
- Ceramic body with glass sealed ceramic cover
- Excellent clock signal generator for CPU's
- Close the price gap between metal and ceramic packaged crystals

RoHS-2 2011/65/EU
 compliant

GENERAL DATA

SMD-CRYSTAL SERIES	SMD0503/2CC (5.0x3.2x1.2mm)
NUMBER OF SOLDER PADS	2
FREQUENCY RANGE	10.0 ~ 54.0 MHz AT-Fundamental
FREQUENCY TOLERANCES AT 25°C	≥ ±15 ppm
RESONANCE RESISTANCE	80 ~ 30 Ω max.
LOAD CAPACITANCE (C _L)	6 pF ~ 50 pF or Series
WORKING TEMPERATURE RANGES	0/+50°C ~ -40/+125°C
SHUNT CAPACITANCE C ₀	7 pF max.
DRIVE LEVEL	100 μW max. standard (other parameters deliverable on request)
AGING	±3 ~ ±5 ppm per year standard (±2 ppm max. available on request)
INSULATION RESISTANCE	>500 MΩ DC/100V ±10%
STORAGE TEMPERATURE	-55°+125°C
DELIVERY FORM	Tape and Reel (1.000 pcs per reel)

OTHER PARAMETERS ARE AVAILABLE ON REQUEST / CREATE HERE YOUR SPECIFICATION

FREQUENCY STABILITY VS. TEMPERATURE

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

CRYSTALS

OSCILLATORS

CERAMIC RESONATORS



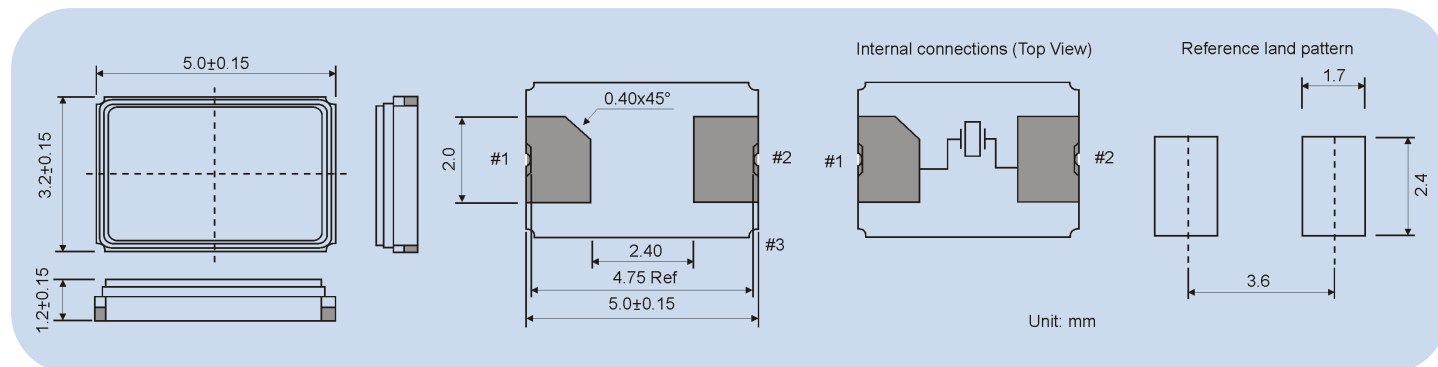
Premium Quality by
 PETERMANN-TECHNIK

CERAMIC FILTERS

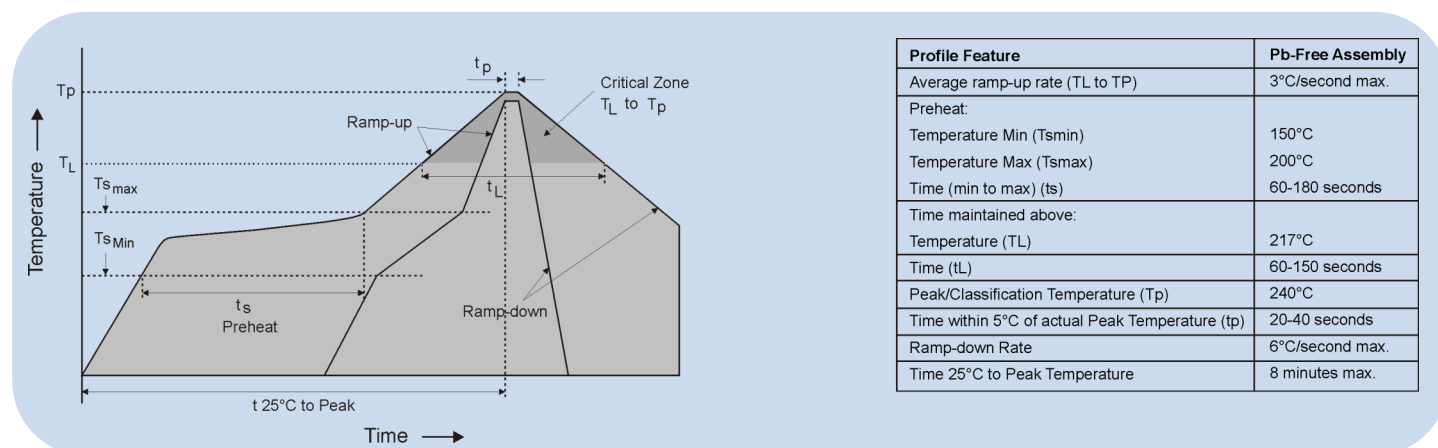
SAW COMPONENTS

Spec.01 • REV.01 • November 2013

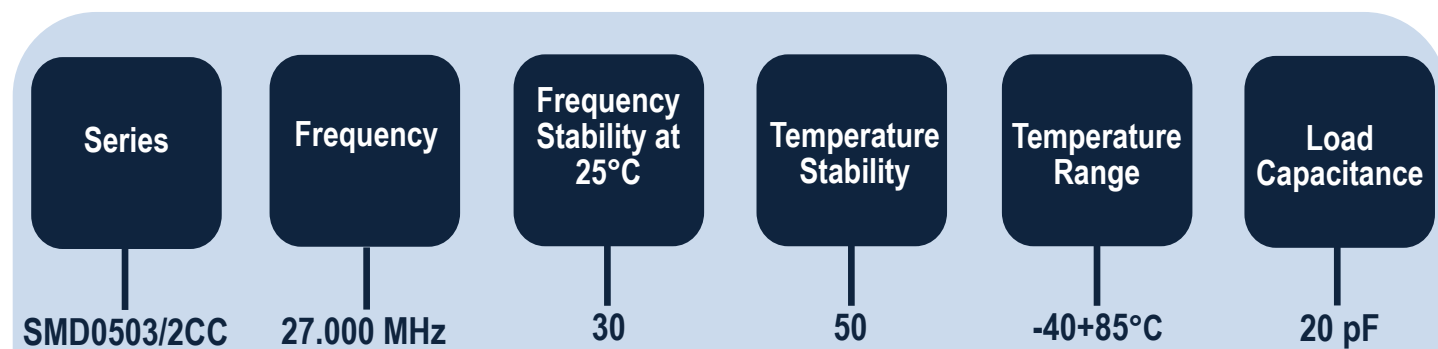
DIMENSIONS



REFLOW SOLDER PROFILE



ORDERING INFORMATION



Example: SMD0503/2CC 27.000 MHz 30/50/-40+85/20pF
 PLEASE INDICATE YOUR REQUIRED PARAMETERS

CRYSTALS
 OSCILLATORS
 CERAMIC RESONATORS

PT
 Premium Quality by
 PETERMANN-TECHNIK

CERAMIC FILTERS
 SAW COMPONENTS
 Spec.01 • REV.01 • November 2013