

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
- + Close the price gap between metal and ceramic packaged crystals
- + Excellent clock generator for CPU's, Wireless, Mobile Comm., etc.



ROHS COMPLIANT

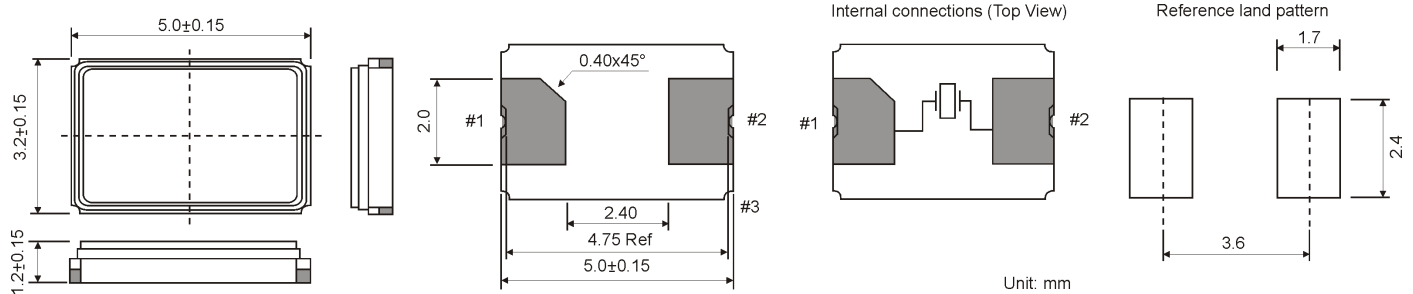
GENERAL DATA

PARAMETERS	PRODUCT FEATURES AND CONDITIONS
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	±10 ppm ~ ±50 ppm
LOAD CAPACITANCE (C _L)	6 pF ~ 50 pF or Series
WORKING TEMPERATURE RANGE	0/+50°C ~ -40/+125°C
SHUNT CAPACITANCE (C ₀)	7.0 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)
RoHS	RoHS compliant This product contains lead (Pb) according exemption No. 7(c)-I.
SELECT YOUR REQUIRED CRYSTAL (PRODUCT CONFIGURATOR)	REQUEST CRYSTAL SAMPLES (SAMPLE CONFIGURATOR)

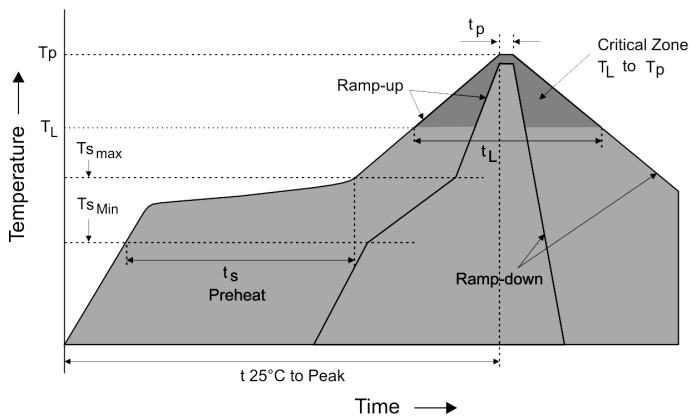
FREQUENCY STABILITY VS. TEMPERATURE

	±10ppm	±15ppm	±20ppm	±30ppm	±50ppm
0°/+50°C	+	+	+	+	+
-10°/+60°C	+	+	+	+	+
0°/+70°C	+	+	+	+	+
-20°/+70°C	+	+	+	+	+
-40°/+85°C		+	+	+	+

DIMENSIONS OF SMD0503/2CC



REEL SOLDER PROFILE

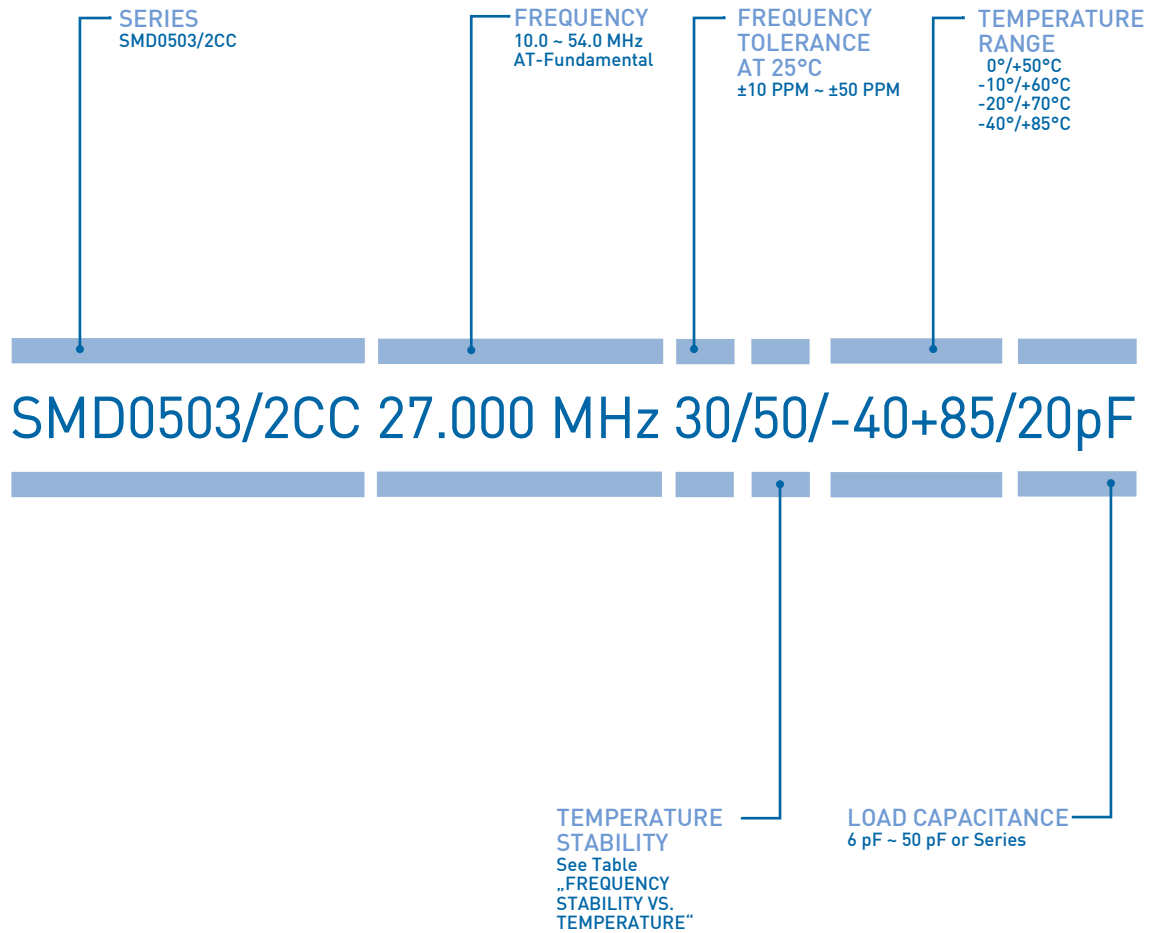


Profile Feature	Pb-Free Assembly
Average ramp-up rate (TL to TP)	3°C/second max.
Preheat:	
Temperature Min (T _{Smin})	150°C
Temperature Max (T _{Smax})	200°C
Time (min to max) (t _s)	60-180 seconds
Time maintained above:	
Temperature (T _L)	217°C
Time (t _L)	60-150 seconds
Peak/Classification Temperature (T _p)	260°C
Time within 5°C of actual Peak Temperature (t _p)	20-40 seconds
Ramp-down Rate	6°C/second max.
Time 25°C to Peak Temperature	8 minutes max.

RESONANCE RESISTANCE

FREQUENCY IN MHz	VIBRATION MODE	ESR MAX. IN Ω
10.0 ~ 54.0 MHz	AT Fund.	30 ~ 80

ORDERING INFORMATION



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



PREMIUM QUALITY BY PETERMANN-TECHNIK



OUR COMPANY IS CERTIFIED ACCORDING TO ISO 9001:2015 AND 14001:2015

THIS IS FOR YOU TO ENSURE THAT THE PRINCIPLES OF QUALITY MANAGEMENT ARE FULLY IMPLEMENTED IN OUR QUALITY MANAGEMENT SYSTEM AND QUALITY CONTROL METHODS ALSO DOMINATE OUR QUALITY STANDARDS.