

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-2 2011/65/EU COMPLIANT

GENERAL DATA

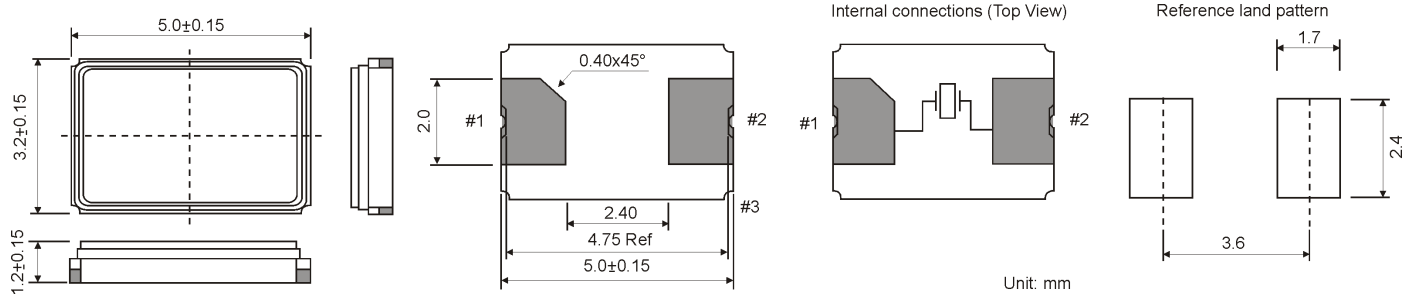
| PARAMETERS | PRODUCT FEATURES AND CONDITIONS |
|-------------------------------------|--|
| SMD-CRYSTAL SERIES | SMD0503/2CC (5.0x3.2x1.2mm) |
| NUMBER OF SOLDER PADS | 2 |
| FREQUENCY RANGE | 10.0 ~ 54.0 MHz AT-Fundamental |
| FREQUENCY TOLERANCES AT 25°C | ±10 ppm ~ ±50 ppm |
| LOAD CAPACITANCE (C _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) |

OTHER PARAMETERS ARE AVAILABLE ON REQUEST / CREATE HERE YOUR SPECIFICATION

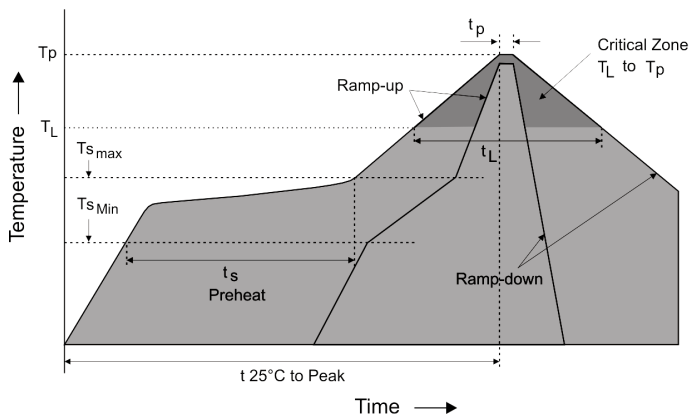
FREQUENCY STABILITY VS. TEMPERATURE

| | ±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

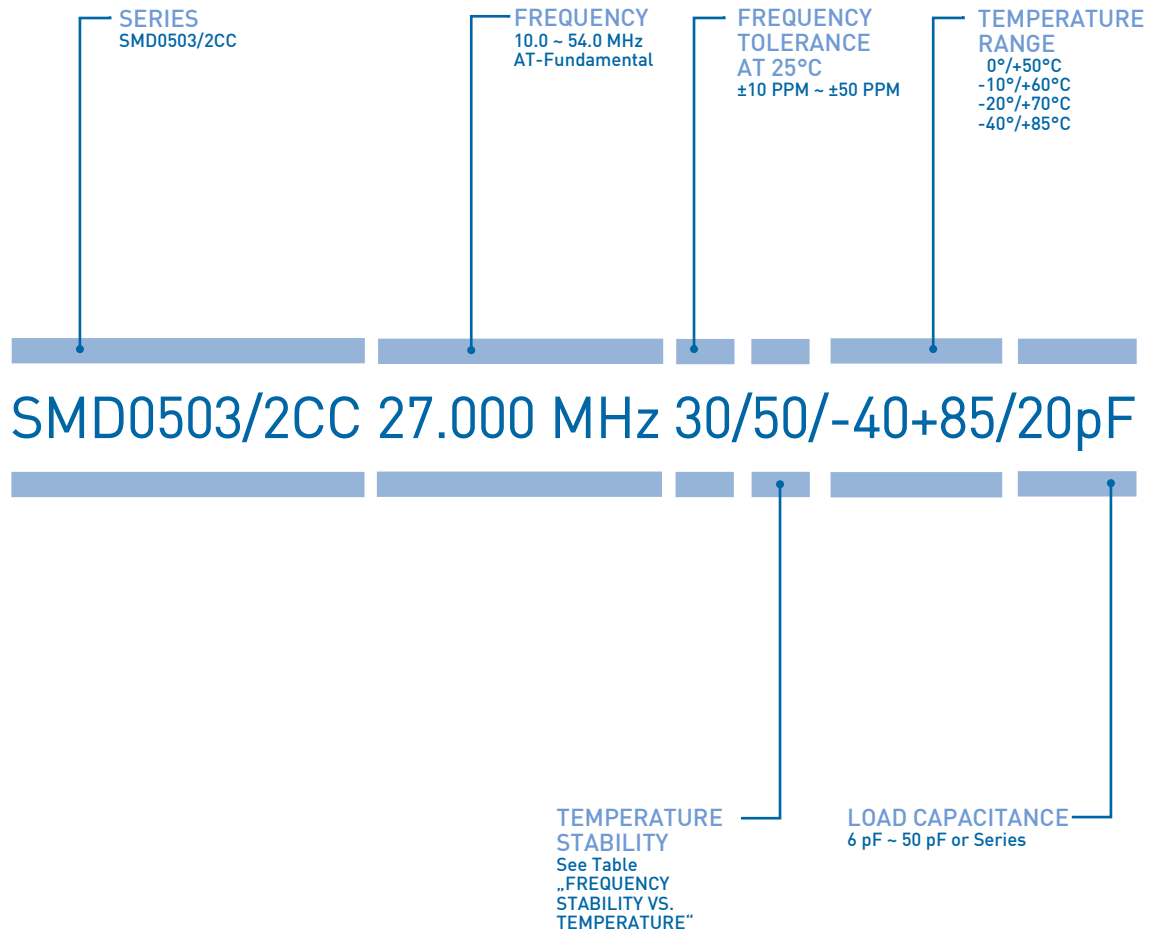


| Profile Feature | Pb-Free Assembly |
|--|------------------|
| Average ramp-up rate (TL to TP) | 3°C/second max. |
| Preheat: | |
| Temperature Min (T _{smin}) | 150°C |
| Temperature Max (T _{smax}) | 200°C |
| Time (min to max) (t _s) | 60-180 seconds |
| Time maintained above: | |
| Temperature (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 9001:2008 IN OCTOBER 2013 BY THE DMSZ CERTIFIKATION GMBH.

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.