

SMD QUARTZ CRYSTAL

SERIES SMD03025/4CC

FEATURES

- + High reliability for low cost
- + Cheapest available MINI-SMD-XTAL
- + Ceramic body with glass sealed ceramic cover
- + Excellent clock signal generator for CPU´s



ROHS-2 2011/65/EU COMPLIANT

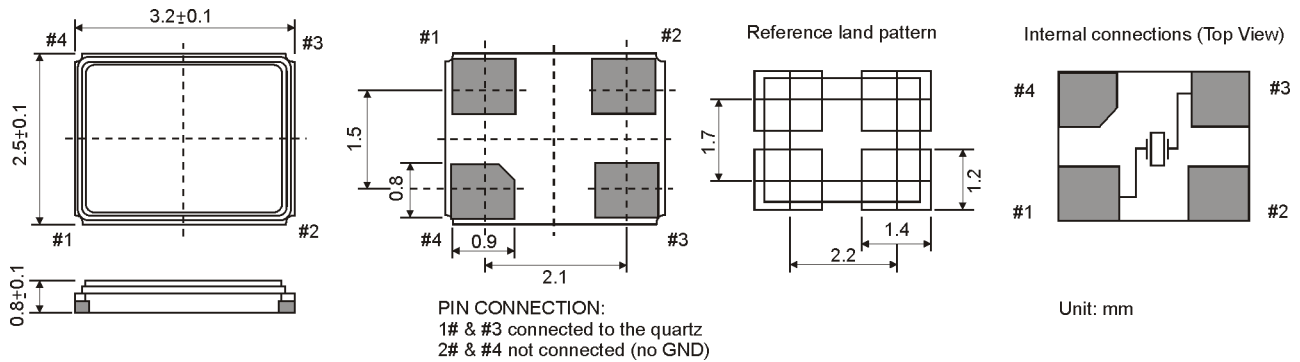
GENERAL DATA

PARAMETERS	PRODUCT FEATURES AND CONDITIONS
SMD-CRYSTAL SERIES	SMD03025/4CC (3.2x2.5x0.9mm)
NUMBER OF SOLDER PINS	4
FREQUENCY RANGE	8.0 ~ 64.0 MHz AT-FUNDAMENTAL (please ask if your required frequency is developed)
FREQUENCY TOLERANCES AT 25°C	±15 ppm ~ ±50 ppm
LOAD CAPACITANCE (C _L)	7 pF ~ 30 pF (other parameters deliverable on request)
WORKING TEMPERATURE RANGES	0/+50°C ~ -40/+85°C
SHUNT CAPACITANCE (C ₀)	6 pF max.
DRIVE LEVEL	100 µW max. (other parameters available on request)
AGING	±3 ppm per year standard
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	

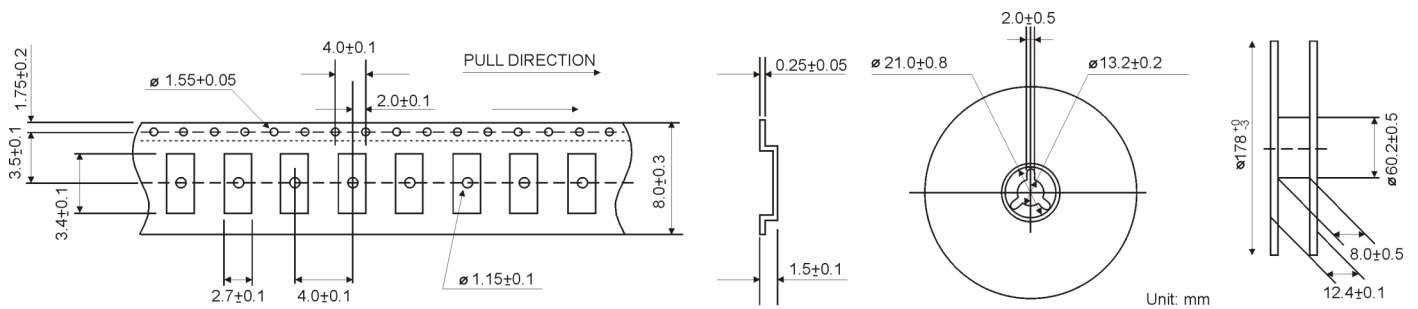
FREQUENCY STABILITY VS. TEMPERATURE

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

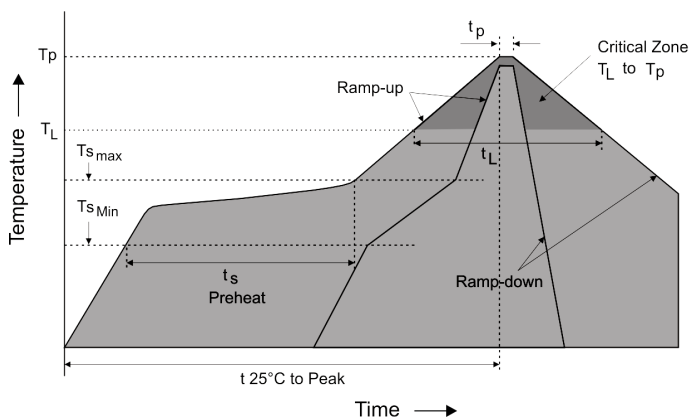
DIMENSIONS



REEL SPECIFICATION



REFLOW SOLDER PROFILE

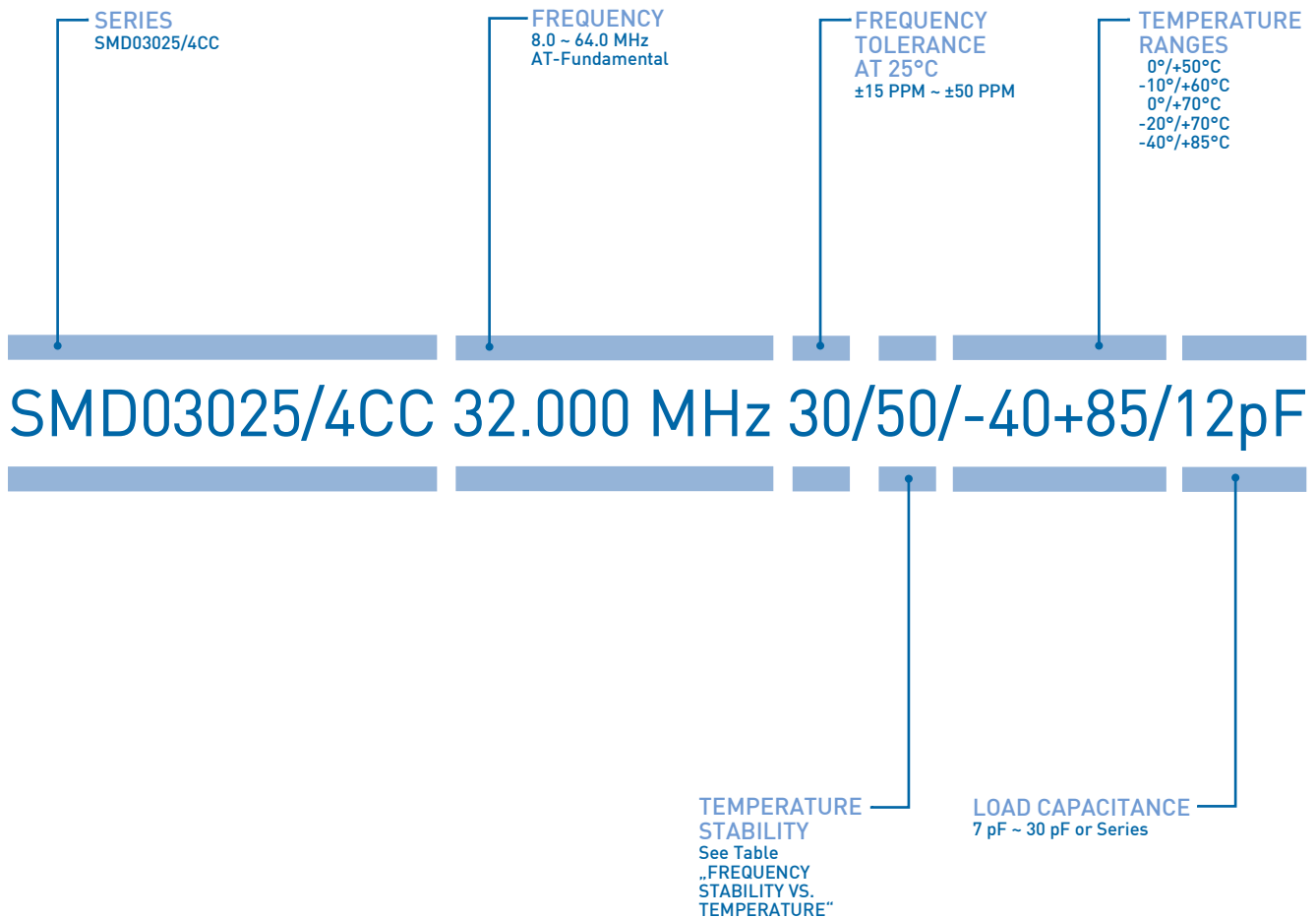


Profile Feature	Pb-Free Assembly
Average ramp-up rate (TL to TP)	3°C/second max.
Preheat:	
Temperature Min (T _{smin})	150°C
Temperature Max (T _{smax})	200°C
Time (min to max) (t _s)	60-180 seconds
Time maintained above:	
Temperature (TL)	217°C
Time (t _L)	60-150 seconds
Peak/Classification Temperature (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
8.0 ~ 9.0 MHz	AT Fund.	400
9.0 ~ 9.8 MHz	AT Fund.	300
9.8 ~ 11.0 MHz	AT Fund.	150
11.0 ~ 13.0 MHz	AT Fund.	100
13.0 ~ 20.0 MHz	AT Fund.	80
20.0 ~ 27.0 MHz	AT Fund.	60
27.0 ~ 64.0 MHz	AT Fund.	50
64.0 ~ 80.0 MHz	AT Fund.	40

ORDERING INFORMATION



EXAMPLE: SMD03025/4CC 32.000 MHz 30/50/-40+85/12pF

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.