

SMD QUARTZ CRYSTAL SERIES SMD03025/4CC

FEATURES

RoHS-2 2011/65/EU
 compliant

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

GENERAL DATA

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 ~ 20 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	<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"/>

CRYSTALS

OSCILLATORS

CERAMIC RESONATORS



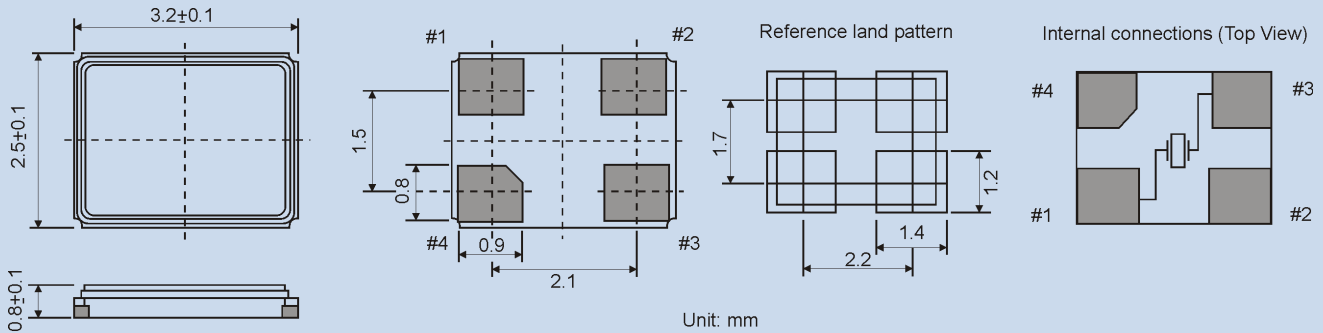
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CERAMIC FILTERS

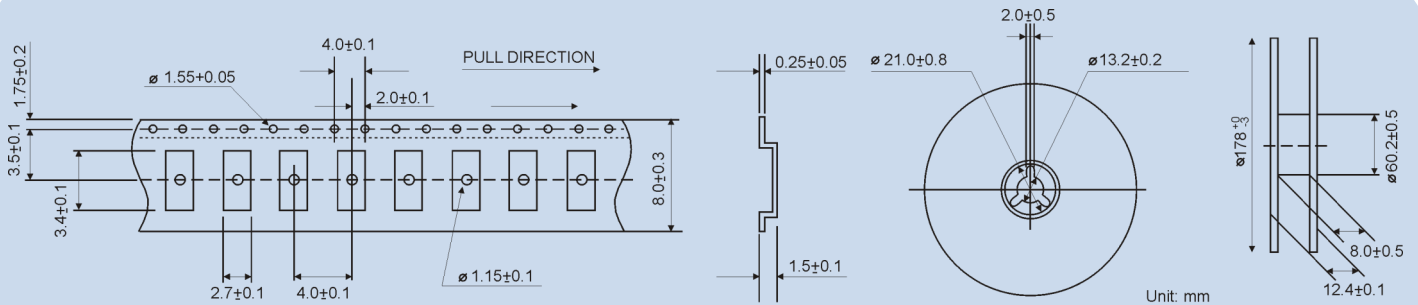
SAW COMPONENTS

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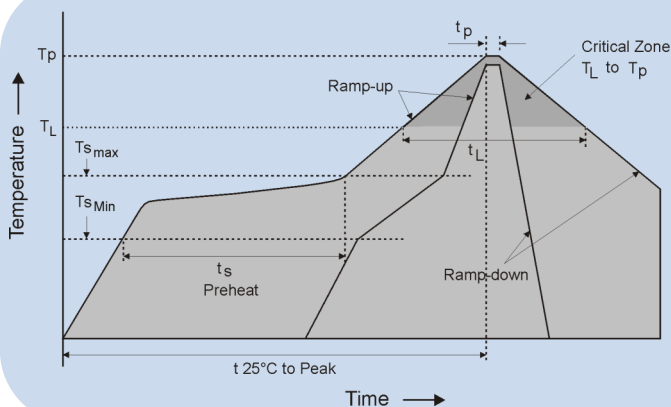
DIMENSIONS



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 (TL)	60-150 seconds
Peak/Classification Temperature (T _p)	240°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.

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ORDERING INFORMATION

Series	Frequency	Frequency Stability at 25°C	Temperature Stability	Temperature Range	Load Capacitance
SMD03025/4CC	32.000 MHz	30	50	-40+85°C	12 pF

Example: SMD03025/4CC 32.000 MHz 30/50/-40+85/12pF
 PLEASE INDICATE YOUR REQUIRED PARAMETERS

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

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