



## SMD QUARTZ CRYSTAL SERIES SMD0503/4

### FEATURES

- Tight tolerance / tight stability available
- High reliability for low cost
- Low profile – 0.7 mm package height
- Extended temperature range to -40/+125°C available
- Qualified for automotive applications
- Excellent clock signal generator for CPU's

Pb free  
 RoHS-2 2011/65/EU  
 compliant

### GENERAL DATA

SMD-CRYSTAL SERIES	SMD0503/4 (5.0x3.2x0.8mm)
NUMBER OF SOLDER PINS	4 pads
FREQUENCY RANGE	8.0 ~ 54.0 MHz AT-Fundamental 40.0 ~ 80.0 MHz 3 <sup>rd</sup> Overtone
FREQUENCY TOLERANCES AT 25°C	±5 ppm ~ ±50 ppm
LOAD CAPACITANCE (C <sub>L</sub> )	6 pF ~ 30 pF or Series
WORKING TEMPERATURE RANGES	0/+50°C ~ -40/+125°C
SHUNT CAPACITANCE C <sub>0</sub>	7 pF max.
DRIVE LEVEL	0.01 mW ~ 0.1 mW standard (optional 0.5 mW max. available)
AGING	±2 ppm per year standard (±1 ppm available as option)
INSULATION RESISTANCE	>500 MΩ DC/100V ±10%
STORAGE TEMPERATURE	-55°+125°C
DELIVERY FORM	Tape and Reel (1.000 pcs per reel)
<b>OTHER PARAMETERS ARE AVAILABLE ON REQUEST / CREATE HERE YOUR SPECIFICATION</b>	

### FREQUENCY STABILITY VS. TEMPERATURE

	±3ppm	±5ppm	±10ppm	±15ppm	±20ppm	±30ppm	±50ppm
0°/+50°C	<input type="checkbox"/>	<input type="checkbox"/>	<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"/>	<input type="checkbox"/>
0°/+70°C		<input type="checkbox"/>	<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"/>
-40°/+125°C							<input type="checkbox"/>

**CRYSTALS**  
**OSCILLATORS**  
**CERAMIC RESONATORS**



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**SAW COMPONENTS**

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## ORDERING INFORMATION

<b>Series</b>	<b>Frequency</b>	<b>Frequency Stability at 25°C</b>	<b>Temperature Stability</b>	<b>Temperature Range</b>	<b>Load Capacitance</b>
SMD0503/4	27.000 MHz	30	50	-40+85°C	20 pF

## RESONANCE RESISTANCE

Frequency in MHz	Vibration mode	ESR max. in $\Omega$
8.0 ~ 16.0	AT Fund.	80
16.0 ~ 25.0	AT Fund.	50
25.0 ~ 30.0	AT Fund.	40
30.0 ~ 50.00	AT Fund.	35
50.0 ~ 54.00	AT Fund.	80
40.0 ~ 80.00	3rd OT AT	80-100

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