

13.575 MHz Quarz SMD



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## SMD QUARTZ CRYSTAL

### SERIES HC-49/US-SMD

#### FEATURES

- + High reliability for low cost / Cheapest available SMD-Crystal
- + 3 pad package for grounding
- + Low profile - 3.2 and 3.0 mm package heights available
- + Extended temperature range to -40/+125°C available
- + Very tight frequency tolerances available



#### GENERAL DATA

PB FREE / ROHS-2 2011/65/EU COMPLIANT

PARAMETERS	PRODUCT FEATURES AND CONDITIONS
SMD-CRYSTAL SERIES	HC-49/US-SMD (without grounding pin) HC-49/US-GSMD (with grounding pin)
NUMBER OF SOLDER PINS	HC-49/US-SMD = 2 (standard) HC-49/US-GSMD = 3 (middle pin for grounding)
FREQUENCY RANGE	3.5 ~ 40.0 MHz AT-Fundamental 24.0 ~ 40.5504 MHz BT-Fundamental 24.576 ~ 80.0 MHz 3rd Overtone
FREQUENCY TOLERANCES AT 25°C	±5 ppm ~ ±50 ppm
LOAD CAPACITANCE (C <sub>L</sub> )	6 pF ~ 50 pF or Series
WORKING TEMPERATURE RANGES	0/+50°C ~ -40/+125°C
SHUNT CAPACITANCE (C <sub>0</sub> )	7 pF max.
DRIVE LEVEL	100 µW typical (0.01 mW ~ 1 mW possible on request)
AGING	±3 ~ ±5 ppm per year standard (±2 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)

[OTHER PARAMETERS ARE AVAILABLE ON REQUEST / CREATE HERE YOUR SPECIFICATION](#)

#### FREQUENCY STABILITY VS. TEMPERATURE

	±5ppm	±10ppm	±15ppm	±20ppm	±30ppm	±50ppm
0°/+50°C	+	+	+	+	+	+
-10°/+60°C	+	+	+	+	+	+
0°/+70°C		+	+	+	+	+
-20°/+70°C		+	+	+	+	+
-40°/+85°C			+	+	+	+
-40°/+125°C						+

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