PETERMANN-TECHNIK GmbH Lechwiesenstr. 13 • D-86899 • Landsberg am Lech Tel: +49/8191/305395 • Fax: +49/8191/305397 info@petermann-technik.com • www.petermann-technik.com



SMD QUARTZ CRYSTAL

SERIES UM1/UM5-SMD CLIP

FEATURES

- + High reliability for low cost
- + Tight frequency stabilities possible
- + Extended temperature range to -40/+125°C available
- + Excellent clock signal generator for CPU's
- + Cheapest available crystal with tight tolerances up to 200 MHz



ROHS-2 2011/65/EU COMPLIANT

GENERAL DATA

PARAMETERS	PRODUCT FEATURES AND CONDITIONS				
SMD-CRYSTAL SERIES	UM1/UM5				
NUMBER OF LEADS	2 = standard 3 = optional				
FREQUENCY RANGE	6.0 ~ 45.0 MHz AT-FUNDAMENTAL 30.0 ~ 100.0 MHz 3rd Overtone 80.0 ~ 155.0 MHZ 5th Overtone 120.0 ~ 200.0 MHz 7th Overtone				
FREQUENCY TOLERANCES AT 25°C	±5 ppm ~ ±50 ppm				
RESONANCE RESISTANCE	60 Ω Max. ~ 120 Ω Max.				
LOAD CAPACITANCE (CL)	6 pF ~ 50 pF or Series				
WORKING TEMPERATURE RANGES	0/+50°C ~ -40/+125°C				
SHUNT CAPACITANCE (Co)	7 pF max.				
DRIVE LEVEL	100 μ W typical (0.07 mW ~ 1 mW possible on request)				
AGING	$\pm 3 \sim \pm 5$ ppm per year standard (± 1 or ± 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					

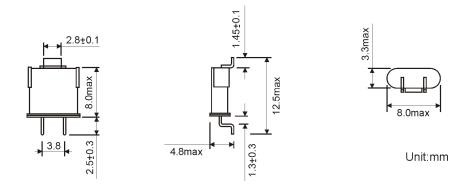
FREQUENCY STABILITY VS. TEMPERATURE

	±3ppm	±5ppm	±10ppm	±20ppm	±30ppm	±50ppm
0°/+50°C	+	+	+	+	+	+
-10°/+60°C	+	+	+	+	+	+
0°/+70°C		+	+	+		+
-20°/+70°C		+	+	+	+	+
-40°/+85°C			+	+	+	+
-40°/+125°C						+

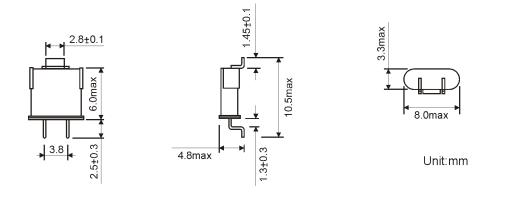




DIMENSIONS OF UM1-SMD-CLIP



DIMENSIONS OF UM5-SMD-CLIP



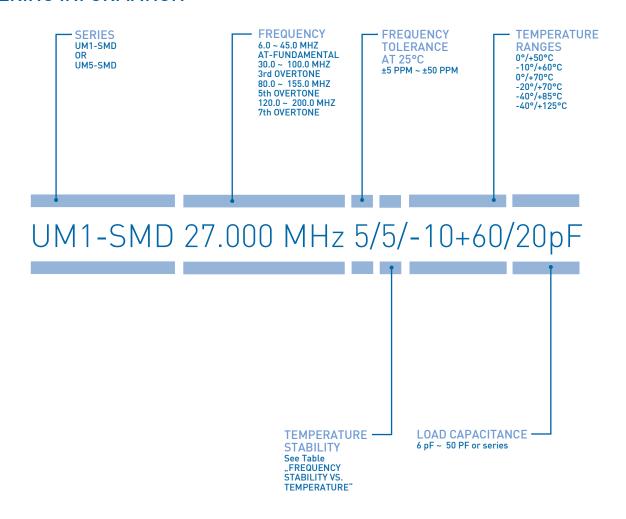
PETERMANN-TECHNIK GmbH Lechwiesenstr. 13 • D-86899 • Landsberg am Lech Tel: +49/8191/305395 • Fax: +49/8191/305397 info@petermann-technik.com • www.petermann-technik.com



RESONANCE RESISTANCE

FREQUENCY IN MHZ	VIBRATION MODE	ESR MAX. IN Ω
6.0 ~ 45.0 MHz	AT Fund.	60 ~ 120
30.0 ~ 100.0 MHz	3rd Overtone	60 ~ 120
80.0 ~ 155.0 MHz	5th Overtone	60 ~ 120
120.0 ~ 200.0 MHz	7th Overtone	60 ~ 120

ORDERING INFORMATION



EXAMPLE: UM1-SMD 27.000 MHz 5/5/-10+60/20pF PLEASE INDICATE YOUR REQUIRED PARAMETERS



PETERMANN-TECHNIK GmbH Lechwiesenstr. 13 • D-86899 • Landsberg am Lech Tel: +49/8191/305395 • Fax: +49/8191/305397 info@petermann-technik.com • www.petermann-technik.com





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.

© PETERMANN-TECHNIK GmbH 2015. The information contained herein is subject to change at any time without notice. PETERMANN-TECHNIK owns all rights, title and interest to the intellectual property related to PETERMANN-TECHNIK's products, including any software, firmware, copyright, patent, or trademark. The sale of PETERMANN-TECHNIK products does not convey or imply any license under patent or other rights. PETERMANN-TECHNIK retains the copyright and trademark rights in all documents, catalogs and plans supplied pursuant to or ancillary to the sale of products or services by PETERMANN-TECHNIK. Unless otherwise agreed to in writing by PETERMANN-TECHNIK, any reproduction, modification, translation, compilation, or representation of this material shall be strictly prohibited.