

QUARTZ CRYSTALS	MHz range	SMD-version
model	KX - 13	
frequency range	6,0 ~ 160,0 MHz	
mode	fundamental, 3 <sup>rd</sup> overtone, 5 <sup>th</sup> overtone	
operating temperature	standard -20° ~ + 70° C available -40° ~ + 85° C (= KX-13T) available -40° ~ + 105° C (= KX-13E)	
frequency tolerance at +25° C	standard ± 30 ppm available ± 10 ~ ± 50 ppm	
temperature tolerance at -20° ~ + 70° C -40° ~ + 85° C -40° ~ + 105° C	standard ± 50 ppm, available ± 10 ~ ± 30 ppm, standard ± 100 ppm, available ± 20 ~ ± 50 ppm standard ± 120 ppm, available ± 30 ~ ± 80 ppm	
load capacitance C <sub>L</sub>	standard 16 pF available 12 ~ 20 pF	
series resonance R <sub>1</sub> max.	fundamental	6,0 ~ 7,00 MHz 120 Ohm 7,1 ~ 10,99 MHz 100 Ohm 11,0 ~ 13,99 MHz 50 Ohm 14,0 ~ 15,99 MHz 40 Ohm 16,0 ~ 40,50 MHz 30 Ohm 3 <sup>rd</sup> overtone 35,0 ~ 39,99 MHz 100 Ohm 40,0 ~ 49,99 MHz 80 Ohm 50,0 ~ 90,00 MHz 50 Ohm 5 <sup>th</sup> overtone 90,0 ~ 260,00 MHz 100 Ohm
aging ( first year )	standard: ± 5 ppm, possible ± 1 ppm	
shunt capacitance C <sub>0</sub> max.	7,0 pF	
drive level in mW	0,05	
RoHS	since production start	
contents of reel	1000 pcs.	
part no.	12.87900-12.87999	

