

| 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<br>available -40° ~ + 85° C (= KX-13T)<br>available -40° ~ + 105° C (= KX-13E)  |   |
| frequency tolerance at +25° C  | standard ± 30 ppm<br>available ± 10 ~ ± 50 ppm  |   |
| temperature tolerance at -20° ~ + 70° C<br>-40° ~ + 85° C<br>-40° ~ + 105° C | standard ± 50 ppm, available ± 10 ~ ± 30 ppm,<br>standard ± 100 ppm, available ± 20 ~ ± 50 ppm<br>standard ± 120 ppm, available ± 30 ~ ± 80 ppm |   |
| load capacitance C <sub>L</sub>  | standard 16 pF<br>available 12 ~ 20 pF  |   |
| series resonance R <sub>1</sub> max.   | fundamental   | 6,0 ~ 7,00 MHz 120 Ohm<br>7,1 ~ 10,99 MHz 100 Ohm<br>11,0 ~ 13,99 MHz 50 Ohm<br>14,0 ~ 15,99 MHz 40 Ohm<br>16,0 ~ 40,50 MHz 30 Ohm<br>3 <sup>rd</sup> overtone<br>35,0 ~ 39,99 MHz 100 Ohm<br>40,0 ~ 49,99 MHz 80 Ohm<br>50,0 ~ 90,00 MHz 50 Ohm<br>5 <sup>th</sup> overtone<br>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   |   |

