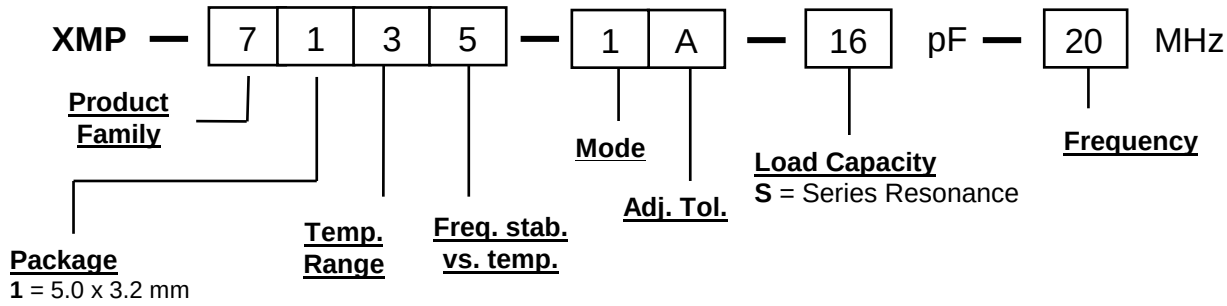
# XMP-7100

**5.0 mm x 3.2 mm Ceramic SMD Package**

| **Specification :** | |
|---|---|
| Frequency range, Mode of vibration : | 11 MHz to 53 MHz fundamental |
| Temperature range options: | **0:** 0 to +50 ℃<br>**1:** -10 to +60 ℃<br>**2:** -20 to +70 ℃<br>**3:** -40 to +85 ℃ |
| Frequency stability vs. temperature options :<br>± 5 ppm (available for temp.range 0 & 1 ):<br>± 10 ppm (available for temp.range 0, 1, 2):<br>± 15 ppm<br>± 20 ppm<br>± 30 ppm<br>± 50 ppm | <br>**1**<br>**2**<br>**3**<br>**4**<br>**5**<br>**6** |
| Adjustment tolerance at +25 ℃: | **A:** ± 10 ppm **B:** ± 15 ppm **C:** ± 20 ppm<br>**D:** ± 25 ppm **E:** ± 30 ppm **F:** ± 50 ppm |
| Load capacity CL : | 9 pF to 32 pF and series resonance available |
| R1max : | See table page 2 |
| Co : | 5 pF max |
| Drive level : | 0.01 mW standard; 0.1 mW max. |
| Aging : | ± 1 ppm/year |
| Storage temperature range : | -55 ℃ to +125 ℃ |

**Ordering Information :**




Typical Part Number: **XMP-7135-1A-16pF-20 MHz**

Mode = fund.
Temp. range = -40 to +85 ℃
Freq.stab. = ± 30 ppm
Adjust. tol = ± 10 ppm.,
$C_L$ = 16 pF
Frequency = 20 MHz

| ED | Description | Date | Name | |
|---|---|---|---|---|
| 4 | Freq stab vs Temp range adapted | 21.02.13 | Dannenmaier | **KVG Quartz Crystal Technology GmbH** |
| 3 | Storage Temp.Range added | 12.05.11 | M. Zupan | Waibstadter Str. 2 - 4 |
| 2 | Ordering coding scheme | 28.08.06 | Rudolph | D-74924 Neckarbischofsheim |
| 5 | Freq stab 10ppm vs Temp range adapted | 02.07.13 | Dannenmaier | Tel. +49 (0) 7263 / 648-0 |
| | | | | Fax. +49 (0) 7263 / 6196 |



**Subject to technical modification**

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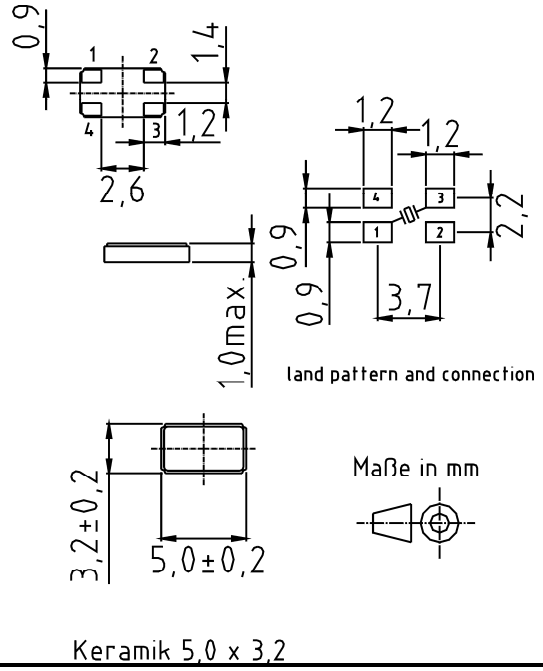
**5.0 mm x 3.2 mm Ceramic SMD Package**

Package Drawing:




Keramik 5,0 x 3,2

$R1_{max}$ as a function of frequency :

| Frequency [MHz] | Mode | R1max [Ohm] |
|---|---|---|
| 11.0 ... 12.9 | fund. | 65 |
| 13.0 ... 23.9 | fund. | 55 |
| 24.0 ... 48.0 | fund. | 45 |
| 48.0 ... 53.0 | fund. | 40 |

| ED | Description | Date | Name | |
|---|---|---|---|---|
| 4 | Freq stab vs Temp range adapted | 21.02.13 | Dannenmaier | **KVG Quartz Crystal Technology GmbH** |
| 3 | Storage Temp.Range added | 12.05.11 | M. Zupan | Waibstadter Str. 2 - 4 |
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