



XMP-5100



7.0 mm x 5.0 mm Ceramic SMD Package

1. Specification

Test conditions: $T_A = +25\text{ °C}$; C_{Lnom} ; $P_D = 0.01\text{ mW}$

Parameter:	Values (Range):	
Frequency range, Mode of vibration :	1: 6.0 MHz to 40.0 MHz fundamental 3: 30.0 MHz to 80.0 MHz 3 rd overtone	
Operating temperature range options :	1: -10 to +60 °C 2: -20 to +70 °C 3: -40 to +85 °C	
Frequency stability vs. temperature options : ± 5 ppm (available for temp.range 1): ± 10 ppm ± 15 ppm ± 20 ppm ± 30 ppm ± 50 ppm	1 2 3 4 5 6	
Adjustment tolerance at +25 °C :	A: ± 10 ppm B: ± 15 ppm C: ± 20 ppm D: ± 25 ppm E: ± 30 ppm F: ± 50 ppm	
Load capacity CL :	12 pF to 32 pF and series resonance available	
Resonance Resistance R_{1max} :	See table below	
Static Capacitance C_o :	5 pF max	
Drive level P_D :	0.01 mW nom.; 0.1 mW max.	
Aging :	≤ ±1 ppm/year	
Storage temperature range :	-55 °C to +125 °C	
R_{1max} vs. frequency		
Frequency [MHz]	Mode	R_{1max}
6.0 ... 8.9	fund.	150 Ω
9.0 ... 10.9	fund.	120 Ω
11.0 ... 17.9	fund.	50 Ω
18.0 ... 40.0	fund.	30 Ω
30.0 ... 80.0	3 rd OT	80 Ω

4	Storage Temp.Range added	12.05.2011	Zupan	KVG Quartz Crystal Technology GmbH Waibstadter Str. 2 - 4 D-74924 Neckarbischofsheim Tel. +49 (0) 7263 / 648-0 Fax. +49 (0) 7263 / 6196
3	Lowest frequency 6MHz	23.10.2009	Kuntz	
6	Freq stab vs Temp range adapted	21.02.2013	Dannenmaier	
5	Soldering profile amended	30.01.2013	Rudolph	
ED	Description	Date	Name	



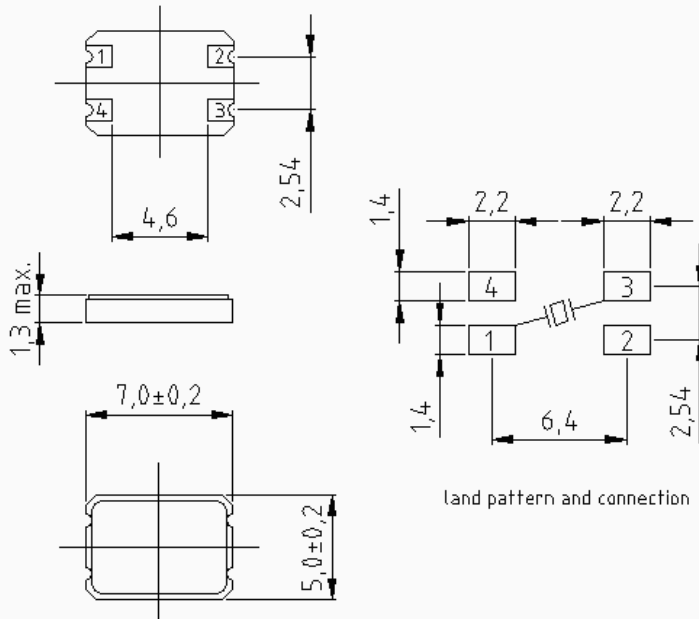
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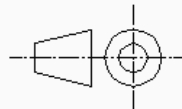
2. Case

Outline Drawing / Enclosure:



Keramik 7,0 x 5,0

Maße in mm



Package Characteristics:

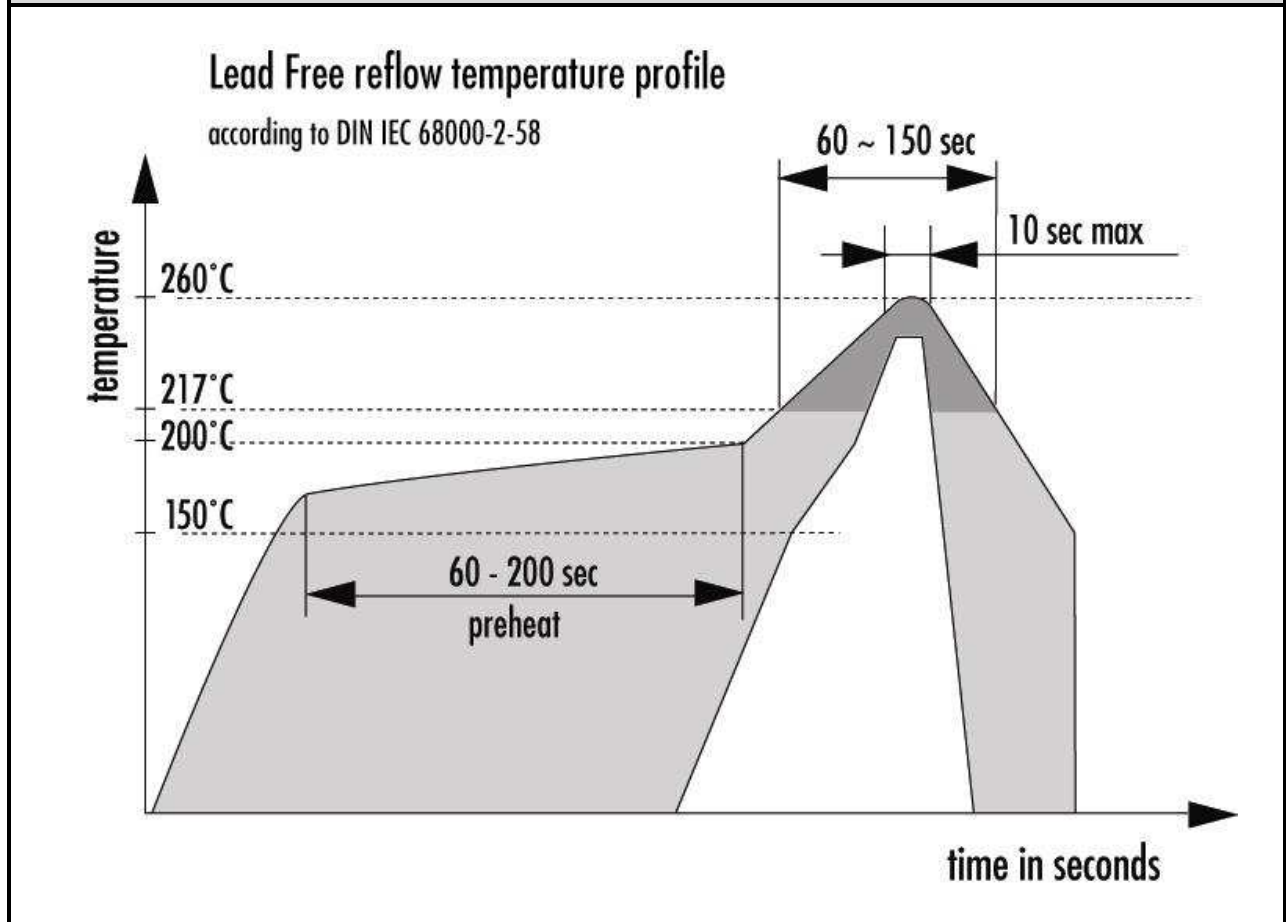
Moisture Sensitivity Level: 1

Termination Finish: Gold over Nickel (Au-Ni)

Max. Reflow Soldering Temperature: 260 °C

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3. Soldering Profile



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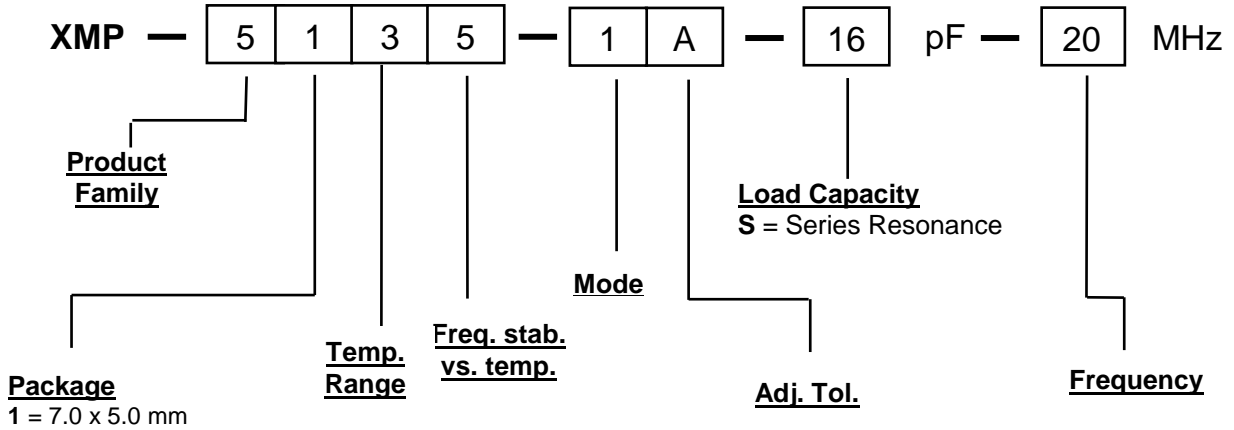


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4. Ordering Information



Part Number Example: XMP-5135-1A-16pF-20.000 MHz

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

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