



XMP-5100



7.0 mm x 5.0 mm Ceramic SMD Package

1. Specification

Test conditions: $T_A = +25\text{ }^{\circ}\text{C}$; 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 R1 _{max} :	See table below	
Static Capacitance Co :	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	
R1_{max} vs. frequency		
Frequency [MHz]	Mode	R1_{max}
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	

XMP-5100.DOC

Sheet 1 of 4

Subject to technical modification





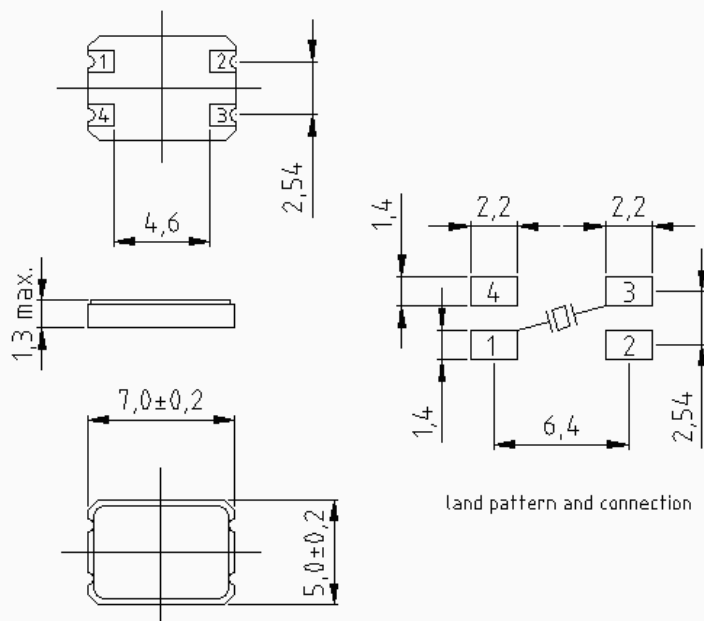
XMP-5100



7.0 mm x 5.0 mm Ceramic SMD Package

2. Case

Outline Drawing / Enclosure:



Land pattern and connection

Maße in mm

Keramik 7,0 x 5,0

Package Characteristics:

Moisture Sensitivity Level: 1

Termination Finish: Gold over Nickel (Au-Ni)

Max. Reflow Soldering Temperature: 260 °C

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	

XMP-5100.DOC

Subject to technical modification

Sheet 2 of 4



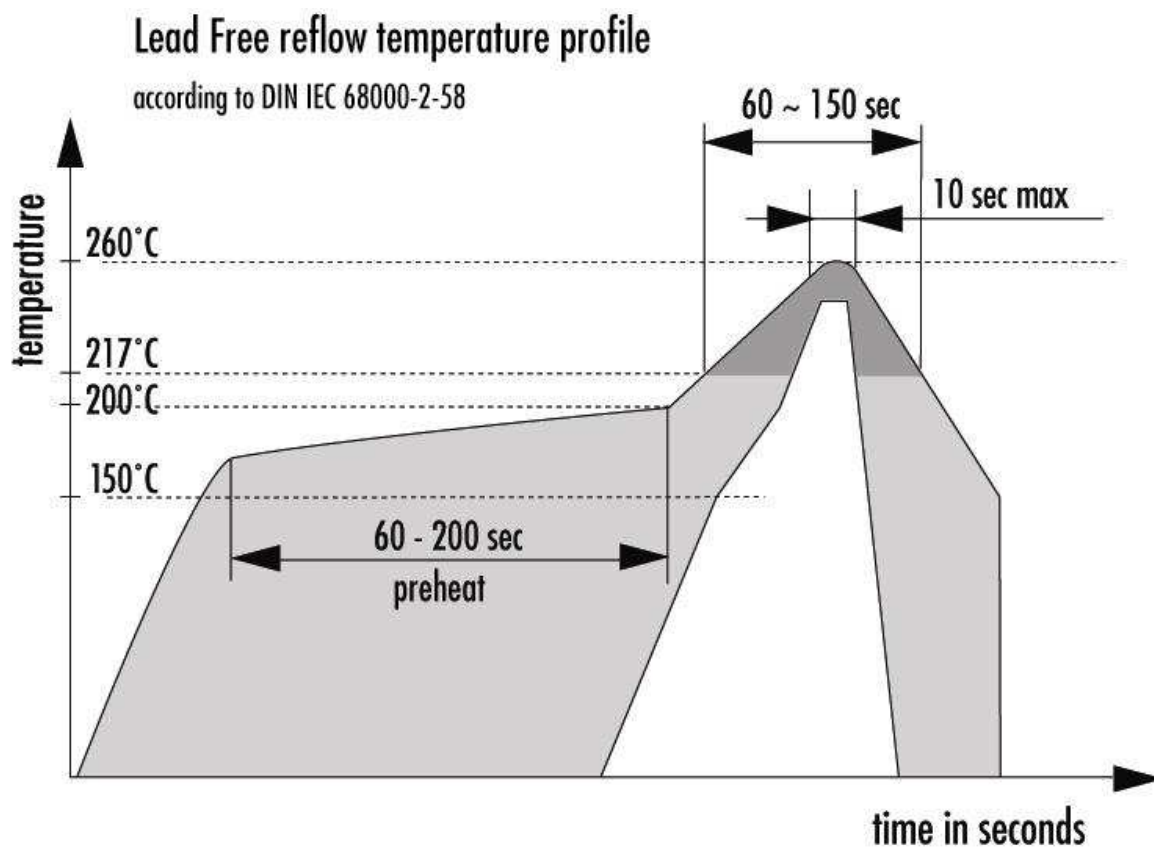


XMP-5100



7.0 mm x 5.0 mm Ceramic SMD Package

3. Soldering Profile



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	

XMP-5100.DOC

Subject to technical modification

Sheet 3 of 4



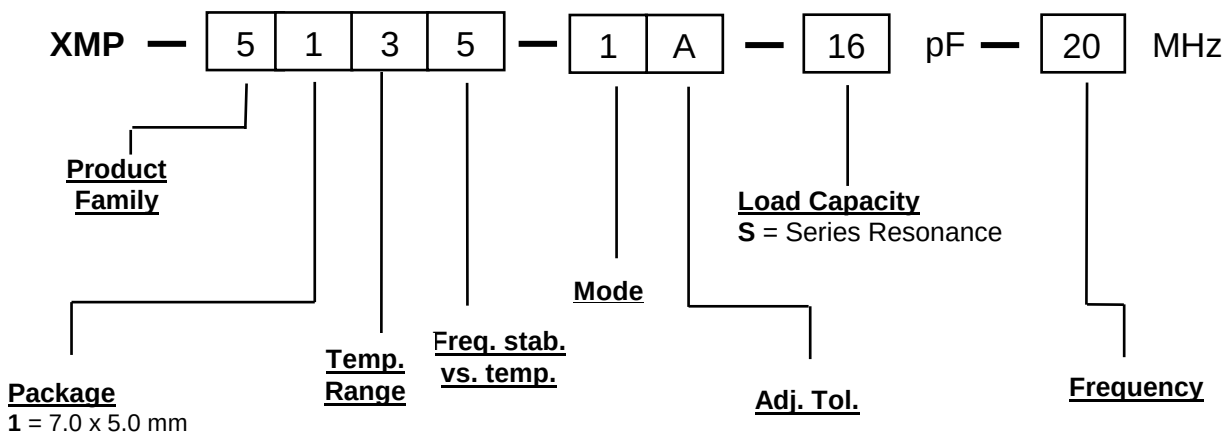


XMP-5100



7.0 mm x 5.0 mm Ceramic SMD Package

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

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	

XMP-5100.DOC

Subject to technical modification

Sheet 4 of 4

