

#### Helping Customers Innovate, Improve & Grow

Table 1. Electrical Performance					
Parameter	Symbol	Min.	Тур	Max	Units
Nominal Frequency	F <sub>NOM</sub>	8.000		100.000	MHz
Mode		Fundan	nental or 3rd Ov	vertone	
Operating Temperature Range	T <sub>OP</sub>	0/70, -10/70, -20/70, -40/85			°C
Stability Over T <sub>OP</sub> <sup>1</sup>	F <sub>STAB</sub>	±10		±100	ppm
Frequency Tolerance <sup>2</sup>	F <sub>TOL</sub>		±10		ppm
Load Capacitance	CL	6		32	pF
Shunt Capacitance	C <sub>o</sub>			5	pF
Drive Level			10	100	uW
Aging / 1st year (at 25 °C)	F <sub>AGE</sub>			±5	ppm
Insulation Resistance		500			MOhm
Storage Temperature	T <sub>sto</sub>	-40		90	°C
		eries Resistance			
Crystal Frequency 8.000MHz-10.000MHz 10.001MHz-14.000MHz 14.001MHz-20.000MHz 20.001MHz-40.000MHz 40.000MHz-100.000MHz, 3rd Overtone	ESR			60 50 40 30 80	Ohm

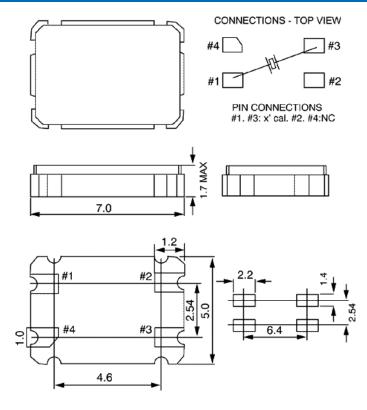
#### Notes:

- 1. Referenced to the Frequency at 25 °C.
- 2. Frequency measured at 25 °C  $\pm$  3 °C.

Product is compliant to RoHS directive and fully compatible with lead free assembly.

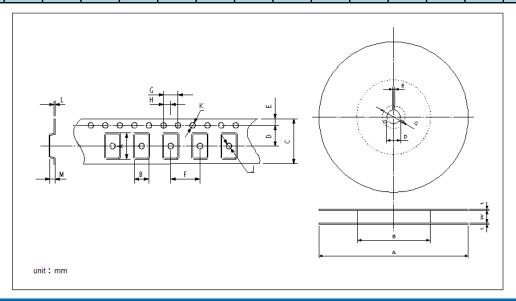


### **Package Drawing**



# Tape & Reel

Table	Table 7. Tape and Reel Dimensions (mm)																	
Tape Reel																		
Α	В	C	D	Е	F	G	Н	J	K	L	М	Α	В	С	D	Е	W	Т
7.3	5.3	16.0	7.5	1.75	8.0	4.0	2.0	1.5	1.5	0.3	1.9	180	60	21.0	13.0	2.0	16.5	1.5



# Reliability & IR Compliance

### Solderprofile:

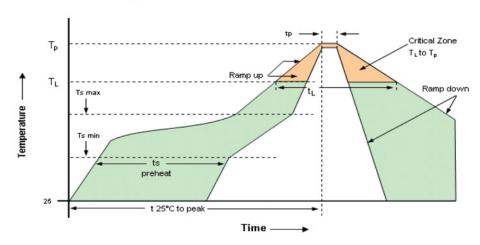
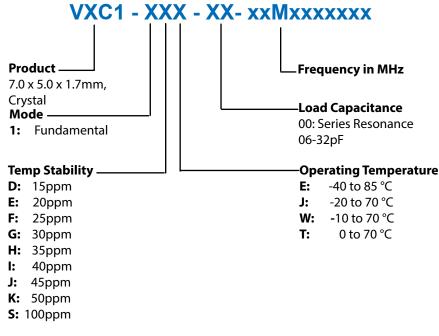


Table 2: Reflow Profile							
Parameter	Symbol	Value					
PreHeat Time Ts-min Ts-max	t <sub>s</sub>	60 sec Min, 260 sec Max 150°C 200°C					
Ramp Up	R <sub>UP</sub>	3 °C/sec Max					
Time Above 217 °C	t <sub>L</sub>	60 sec Min, 150 sec Max					
Time To Peak Temperature	T <sub>AMB-P</sub>	480 sec Max					
Time at 260 °C	t <sub>p</sub>	30 sec Max					
Ramp Down	R <sub>DN</sub>	6 °C/sec Max					

Pads are Au over Ni and compatible with either SnPb or Pb free attachment. MSL: 1

### **Ordering Information**



\*Note: not all combination of options are available. Other specifications may be available upon request.

15ppm stability not available for -40 to 85°C

\* Add **\_SNPBDIP** for tin lead solder dip Example: VXC1-1KE-18-26M0000000\_SNPBDIP

### **Revision History**

<b>Revision Date</b>	Approved	Description
August 30, 2016	RC	Initial datasheet for factory approval and release to customer.
August 10, 2018	FB	Update logo and contact information, add "SNPBDIP" ordering option



Microsemi Headquarters

One Enterprise, Aliso Viejo, CA 92656 USA Within the USA: +1 (800) 713-4113 Outside the USA: +1 (949) 380-6100 Sales: +1 (949) 380-6136 Fax: +1 (949) 215-4996 email: sales.support@microsemi.com www.microsemi.com

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