

Multilayer Ceramic Chip Capacitor

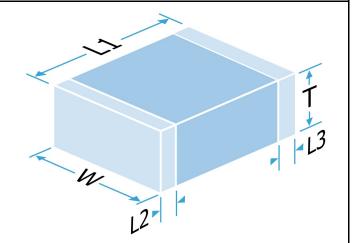
Part Number: 2211Y5K00122KXT

Description: 2211 5000Vdc 1.2nF ±10% X7R (2R1)

A range of X7R MLC capacitors to suit a variety of applications. In a wide selection of chip sizes, rated voltages and terminations, including FlexiCap[™], the world's first commercially available flexible termination.

WS2 and WS3 parts use StackiCap™ patented construction technology.

Suffix code PXX or PX mandates the use of precious metal electrode (PME) materials. This may incur additional costs.



Mechanical Specification		
Size Code	2211	
Length (L1) in mm (")	5.7 +0.50/-0.40 (0.225 +0.02/-0.016)	
Width (W) in mm (")	2.79 ± 0.30 (0.11 ± 0.012)	
Thickness (T) in mm (")	2.54 Max (0.1 Max)	
Minimum Termination Band (L2,L3) in mm (")	0.25 (0.010)	
Maximum Termination Band (L2,L3) in mm (")	0.80 (0.030)	
Termination Material	FlexiCap™ Polymer termination, Nickel barrier, Sn Plated Solder (RoHS compliant)	
Solderability	IEC-60068-2-58	
Packaging	7" Reel Horizontal Orientation, 750 per reel	
Conformal Coating	Considered essential and was used for internal qualification testing	

General Electrical Specification			
Rated Voltage		5000Vdc	
Nominal Capacitance Value		1.2nF	
Capacitance Tolerance		±10%	
Tangent of Loss Angle (Tan δ)		≤0.025	
Capacitance and Tan δ Test Conditions		1.0Vrms @ 1kHz	
Voltage Proof (Voltage applied for 5 secs max. @ 50mA max. charge current)		6000Vdc	
Min Insulation Resistance (IR)		100.00GOhm @ 10	0Vdc
Dielectric Classification		X7R (2R1)	
Rated Temperature Range		-55°C / +125°C	
Maximum Capacitance Change over Temperature Range		No DC Voltage Rated DC Voltage	±15% -
Climatic Category (IEC)		55/125/56	
Ageing Characteristic		<2% per decade (no	ominal capacitance is 1000 hour value)
Knowles Precision Devices - Sales	This datasheet is for a standard item and is confirmed valid on the date generated, the latest published data for this part may differ and is available at http://www.knowlescapacitors.com or by contacting us.		
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Asia: KPD-Asia-sales@knowles.com	© The information contained on this drawing is confidential and may not be copied in whole or part in any form or disclosed to a third party without the consent of Knowles and any customer mentioned within this specification. Data is correct to the best of our knowledge, errors and omissions excepted. Data is correct to the best of our knowledge, errors and omissions excepted. Data is correct to the best of our knowledge, errors and omissions excepted. Data is correct to the best of our knowledge, errors and omissions excepted. Data is correct to the best of our knowledge, errors and omissions excepted. Data is correct to the best of our knowledge, errors and omissions excepted. Data is correct to the best of our knowledge, errors and omissions excepted. Data is correct to the best of our knowledge, errors and omissions excepted. Data is correct to the best of our knowledge, errors and omissions excepted. Data is correct to the best of our knowledge, errors and omissions excepted. Data is correct to the best of our knowledge, errors and omissions excepted. Data is correct to the best of our knowledge, errors and omissions excepted. Data is correct to the best of our knowledge, errors and omissions excepted. Data is correct to the best of our knowledge, errors and omissions excepted. Data is correct to the best of our knowledge, errors and omissions excepted.		
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www.knowlescapacitors.com			



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E	vironmental
RoHS Compliant to 2011/65/EC as amended by 2015/8	3/EU Compliant
REACH Compliant	233 compliant
California Proposition 65	No exposure risk
B	oard Layout
	IPC-7351 pad design
Knowles' conventional 2-terminal chip capacitors generally be mounted using pad designs in accordanc international specification IPC-7351, Generic Require for Surface Mount Design and Land Pattern Standard there are some other factors that have been shown to r mechanical stress, such as reducing the pad width to than the chip width. In addition, the position of the chip of board should be considered.	can 2211 ments C 5.40mm 0.213" s, but Y 1.35mm 0.053" educe X 3.10mm 0.122"
Some high voltage parts may require modifications to board layout and/or the addition of a conformal coat prevent flashover. Refer to application note AN004 further information.	ng to L
	Packaging
Tape packaging information for tape-and-reel parts: Tape and reel packing of surface mounting chip capacito automatic placement are in accordance with IEC60286-3	Top
	Soldering
Reflow solder in accordance with IPC-A-610. Recomme reflow profile as laid down in IPC/JEDEC J-STD-020.	nded
Wave soldering is also possible, but care must be taken case sizes 1210 and larger and component thickness >1.0mm. Trials are encouraged. Hand soldering is not recommended and can lead to component damage through thermal shock.	for Max TL Min Ls Preheat area
PdAg terminations are primarily intended for conductive attachment - they may be suitable for soldering but trials recommended.	ероху
Application notes with mounting and handling guidance	are available on request.
Compex DLI Johanson M	FG Novacap Syfer Voltronics
Europe: KPD-Europe-sales@knowles.com Asia: KPD-Asia-sales@knowles.com USA: KPD-NA-sales@knowles.com any form or discle	is for a standard item and is confirmed valid on the date generated, the latest published day differ and is available at http://www.knowlescapacitors.com or by contacting us. On contained on this drawing is any not be copied in whole or part in sed to a third party without the consent
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