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## **Multilayer Ceramic Chip Capacitor**

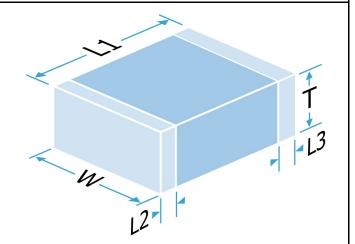
## Part Number: 2211Y6K00561KXT

**Description:** 2211 6000Vdc 560pF ±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<sup>™</sup>, 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		6000Vdc	
Nominal Capacitance Value		560pF	
Capacitance Tolerance		±10%	
Tangent of Loss Angle (Tan $\delta$ )		≤0.025	
Capacitance and Tan $\delta$ Test Conditions		1.0Vrms @ 1kHz	
Voltage Proof (Voltage applied for 5 secs max. @ 50mA max. charge current)		7200Vdc	
Min Insulation Resistance (IR)		100.00GOhm @ 10	0Vdc
Dielectric Classification		X7R (2R1)	
Rated Temperature Range		-55°C / +125°C	
Maximum Capacitance Change over Temperatu	re 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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USA: KPD-NA-sales@knowles.com			
www.knowlescapacitors.com			Date. Tuesday, April 20, 2020



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Part Number: 2211Y6K00561KXT	<b>Description:</b> 2211 6000Vdc 560pF ±10% X7R (2R1)
E	nvironmental
RoHS Compliant to 2011/65/EC as amended by 2015/8	363/EU Compliant
REACH Compliant	233 compliant
California Proposition 65	No exposure risk
	Board Layout
	IPC-7351 pad design
Knowles' conventional 2-terminal chip capacitor generally be mounted using pad designs in accordan international specification IPC-7351, Generic Require for Surface Mount Design and Land Pattern Standar there are some other factors that have been shown to mechanical stress, such as reducing the pad width than the chip width. In addition, the position of the chip board should be considered.	C 5.40mm 0.213"   ds, but Y 1.35mm 0.053"   reduce X 3.10mm 0.122"
Some high voltage parts may require modifications board layout and/or the addition of a conformal coa prevent flashover. Refer to application note ANOC further information.	ting to
	Packaging
Tape packaging information for tape-and-reel parts: Tape and reel packing of surface mounting chip capaci	Product identifying label Plastic carrier tape
automatic placement are in accordance with IEC60286	-3. Top tape 8 or 12mm 178mm (7") or nominal 330mm (13") dia. reel Soldering
Reflow solder in accordance with IPC-A-610. Recomm	-
reflow profile as laid down in IPC/JEDEC J-STD-020. Wave soldering is also possible, but care must be take case sizes 1210 and larger and component thickness >1.0mm. Trials are encouraged. Hand soldering is not recommended and can lead to	e T <sub>p</sub>
component damage through thermal shock.	
PdAg terminations are primarily intended for conductiv attachment - they may be suitable for soldering but tria recommended.	e epoxy
Application notes with mounting and handling guidance	are available on request.
Compex DLI Johanson	MFG Novacap Syfer Voltronics
	t is for a standard item and is confirmed valid on the date generated, the latest published ay differ and is available at http://www.knowlescapacitors.com or by contacting us.
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