

Multilayer Ceramic Chip Capacitor

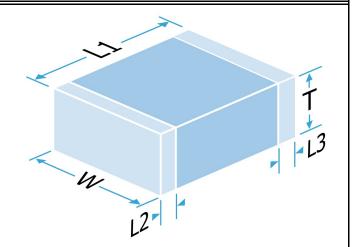
Part Number: 2211Y5000394KXT

Description: 2211 500Vdc 390nF ±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 (")	2.8 Max (0.11 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, 500 per reel			
Conformal Coating	Not normally required			

General Electrical Specification

		-							
Rated Voltage		500Vdc							
Nominal Capacitance Value		390nF							
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) Min Insulation Resistance (IR) Dielectric Classification Rated Temperature Range		750Vdc 2.56GOhm @ 100Vdc X7R (2R1) -55°C / +125°C							
					Maximum Capacitance Change over Temperature Range		No DC Voltage ±15%		
							Rated DC Voltage -		
					Climatic Category (IEC)		55/125/56		
					Ageing Characteristic		<2% per decade (nominal 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								
Europe: KPD-Europe-sales@knowles.com	for this part may differ and is available at http://www.knowlescapacitors.com or by contacting us.								
Asia: KPD-Asia-sales@knowles.com	© The information contained on this drawing is confidential and may not be copied in whole or part in omissions excepted.		Data is correct to the best of our knowledge, errors and omissions excepted.						
USA: KPD-NA-sales@knowles.com	any form or disclosed to a t	hird party without the consent tomer mentioned within this							
www.knowlescapacitors.com	specification.	temer mentioned within this							



Multilayer Ceramic Chip Capacitor

Part Number: 2211Y5000394KX	т D	escription:	2211 500Vdc 39	90nF ±10% X7R (2R1)	
	Environr	nental			
RoHS Compliant to 2011/65/EC as amended	by 2015/863/EU C	ompliant			
REACH Compliant	23	35 compliant			
California Proposition 65	N	No exposure risk			
	Board L	ayout			
Knowles' conventional 2-terminal chip generally be mounted using pad designs in a international specification IPC-7351, Generic for Surface Mount Design and Land Pattern there are some other factors that have been s mechanical stress, such as reducing the pa than the chip width. In addition, the position o board should be considered. Some high voltage parts may require mod board layout and/or the addition of a confor prevent flashover. Refer to application no further information.	accordance with c Requirements Standards, but shown to reduce ad width to less f the chip on the ifications to the prmal coating to		Y	design 2211 5.40mm 0.213" 1.35mm 0.053" 3.10mm 0.122"	
	Packag	ging			
Tape packaging information for tape-and-reel Tape and reel packing of surface mounting ch automatic placement are in accordance with II	ip capacitors for				
	Solder	ring			
Reflow solder in accordance with IPC-A-610. reflow profile as laid down in IPC/JEDEC J-STD-020. Wave soldering is also possible, but care mus case sizes 1210 and larger and component th >1.0mm. Trials are encouraged. Hand soldering is not recommended and can component damage through thermal shock. PdAg terminations are primarily intended for o attachment - they may be suitable for solderin	st be taken for nickness lead to conductive epoxy		Prel area		
Application notes with mounting and handling	-	ble on request.	Tim	e	
	hanson MFG	Novacap	Syfer	Voltronics	
Europe: KPD-Europe-sales@knowles.com fo Asia: KPD-Asia-sales@knowles.com ©	This datasheet is for a standard item and is confirmed va for this part may differ and is available at http://www.know © 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		ww.knowlescapacitors	e generated, the latest published d .com or by contacting us. best of our knowledge, errors and	
of			Date: Thurs	day, November 23, 2023	