

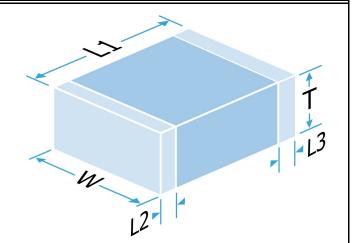
Multilayer Ceramic Chip Capacitor

Part Number: 1210YA250223KXT

Description: 1210 250Vac 50/60Hz 22nF ±10% X7R (2R1)

A range of ceramic MLCC's for use at up to 250Vac 60Hz continuous use and providing an extended capacitance range compared to safety rated MLCC's for non safety-critical applications. Available with a variety of termination options including FlexiCap[™], the world's first commercially available flexible termination.

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



Mechanical Specification			
Size Code	1210		
Length (L1) in mm (")	3.2 +0.30/-0.20 (0.126 +0.012/-0.008)		
Width (W) in mm (")	2.5 ± 0.20 (0.098 ± 0.008)		
Thickness (T) in mm (")	2.0 Max (0.08 Max)		
Minimum Termination Band (L2,L3) in mm (")	0.25 (0.010)		
Maximum Termination Band (L2,L3) in mm (")	0.75 (0.030)		
Termination Material	FlexiCap [™] Polymer termination, Nickel barrier, Sn Plated Solder (RoHS compliant)		
Solderability	IEC-60068-2-58		
Packaging	7" Reel Horizontal Orientation, 2000 per reel		
General Electrical Specification			
Rated Voltage	250Vac 50/60Hz		
Nominal Capacitance Value	22nF		
Capacitance Tolerance	±10%		
Tangent of Loss Angle (Tan δ)	≤0.025		
Capacitance and Tan δ Test Conditions	1.0Vrms @ 1kHz		
Voltage Proof	750Vdc/300Vac		
(Voltage applied for 5 secs max. @ 50mA max. charge current)			
Min Insulation Resistance (IR)	45.45GOhm @ 100Vdc		
Dielectric Classification	X7R (2R1)		
Rated Temperature Range	-55°C / +125°C		
	No DC Voltage ±15%		
Maximum Capacitance Change over Temperature Range	Rated DC Voltage -		
Climatic Category (IEC)	55/125/56		
Ageing Characteristic	<2% per decade		
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. Aria KOPD Agin and an Operating Computer and an operating the sector of			

Asia: KPD-Asia-sales@knowles.com
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Environmental				
RoHS Compliant to 2011/65/EC as amende	ed by 2015/863/EU	Compliant		
REACH Compliant		219 compliant		
California Proposition 65		No exposure risk		
Board Layout				
Knowles' conventional 2-terminal chip generally be mounted using pad designs i international specification IPC-7351, Gene for Surface Mount Design and Land Patter there are some other factors that have bee mechanical stress, such as reducing the than the chip width. In addition, the position board should be considered. Some high voltage parts may require mo	n accordance with eric Requirements ern Standards, but n shown to reduce pad width to less n of the chip on the		PC-7351 pad design 1210 C 3.00mm 0.118" Y 1.15mm 0.045" X 2.70mm 0.106"	
board layout and/or the addition of a con prevent flashover. Refer to application further information.	nformal coating to			
Packaging				
Tape packaging information for tape-and-re	el parts:		Product identifying label Plastic carrier tape	
Tape and reel packing of surface mounting chip capacitors for automatic placement are in accordance with IEC60286-3.			tape 8 or 12mm 178mm (7") or	
Soldering				
Reflow solder in accordance with IPC-A-610. Recommended reflow profile as laid down in IPC/JEDEC J-STD-020. Wave soldering is also possible, but care must be taken for 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.		Temperature		
PdAg terminations are primarily intended for conductive epoxy attachment - they may be suitable for soldering but trials are recommended.				
Application notes with mounting and handling guidance are available on request.				
Compex DLI .	Johanson MFG	Novacap	Syfer Voltronics	
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