

Multilayer Ceramic Chip Capacitor PROVISIONAL DATASHEET

Part Number	: 2211YA250470ł	KTUYX	Description:	2211 250Vac (Y2), 305Vac (X1), 50/60Hz / 2500Vdc 47pF ±10% C0G/NP0 (1B) to AEC-Q200			
Approval Specifications:	IEC/EN60384-14:2013/A1 UL/CAN/CSA60384-14:20	:2016 114		12			
Certification:	tion: Unmarked parts are uncertified but manufactured in accordance with the above specifications.						
Classification:	These capacitors comply of IEC/EN 60384-14:2013 Y2 (250Vac) / X1 (305Vac	with the requirements +A1 for class :).		L2- L4-			
			Component Marking and Certification Bodies: Not Applicable				
Material Group I : CTI >= 600							
Mechanical Specification							
Size Code			2211				
Length (L1) in mm ("	Length (L1) in mm (")			5.7 ± 0.40 (0.225 ± 0.016)			
Width (W) in mm (")			2.79 ± 0.30 (0.11 ± 0.012)				
Thickness (T) in mm (")			1.5 Max (0.06 Max)				
Minimum Termination Band (L2,L3) in mm (")			0.50 (0.020)				
Maximum Termination	on Band (L2,L3) in mm (")		0.80 (0.030)				
Minimum Band Gap	(L4) in mm (")		4.0 (0.158) EleviCan M Balymer termination Nickel herrier. Sn Bloted Selder				
Termination Material			(RoHS compliant)				
Solderability			IEC-60068-2-58				
Packaging			7" Reel Horizontal Orientation, 750 per reel				
	G	eneral Electri	cal Specificat	ion			
Rated Voltage			Class Y2 (250Vac), Class X1 (305Vac), 50/60Hz, 5kV impulse				
Humidity Grade			III (IEC/EN60384-14:2013 Annex 1)				
Maximum DC Workin	ng Voltage		2500Vdc (1000Vdc per IEC/EN60384-14:2013 Annex 1)				
Nominal Capacitance	e Value		47pF				
Capacitance Toleran	ice		±10%				
Tangent of Loss Angle (Tan δ)			0.00153				
Capacitance and Tan δ Test Conditions			1.0Vrms @ 1MHz				
Voltage Proof		AQL test: 4000Vdc / 3000Vac 60s min					
(sumA max charging current for DC tests)		100.00GOhm @ 100Vdc					
Dielectric Classification		C0G/NP0 (1B) to AEC-Q200					
Rated Temperature Range		-55°C / +125°C					
Maximum Capacitance Change over Temperature Range			No DC Voltage	0±30ppm/°C			
			Rated DC Voltage -				
Climatic Category (IEC)			55/125/56				
Ageing Characteristic			Zero				
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Multilayer Ceramic Chip Capacitor

PROVISIONAL DATASHEET

Part Number: 2211YA250470KKTUYX	Description:	2211 250Vac (Y2), 305Vac (X1), 50/60Hz / 2500Vdc 47pF ±10% C0G/NP0 (1B) to AEC-Q200					
Environmental							
RoHS Compliant to 2011/65/EC as amended by 2015/863/EU	Compliant						
REACH Compliant	209 compliant						
California Proposition 65	No exposure risk						
Board Layout							
Knowles' conventional 2-terminal chip capacitors can generally be mounted using pad designs in accordance with international specification IPC-7351, Generic Requirements for Surface Mount Design and Land Pattern Standards, but there are some other factors that have been shown to reduce mechanical stress, such as reducing the pad width to less than the chip width. In addition, the position of the chip on the board should be considered. Some high voltage parts may require modifications to the board layout and/or the addition of a conformal coating to prevent flashover. Refer to application note AN0043 for further information.	I	PC-7351 pad design 2211 C 5.40mm 0.213" Y 1.35mm 0.053" X 3.10mm 0.122"					
Pack	aging						
Tape packaging information for tape-and-reel parts: Tape and reel packing of surface mounting chip capacitors for automatic placement are in accordance with IEC60286-3.		Product identifying label Plastic carrier tape Top tape 8 or 12mm 178mm (7") or nominal 330mm (13") dia. reel					
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	Max Min t t rc TL TL TL TL TL TL TL TL TL TL TL TL TL					
Application notes with mounting and handling guidance are available on request.							

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