

Multilayer Ceramic Chip Capacitor

Part Number: 2211JA250101KATSPU

2211 250Vac 50/60Hz / 2500Vdc 100pF Description: ±10% C0G/NP0 (1B) to AEC-Q200

IEC/EN60384-14:2013 Approval Specifications: UL-60950-1, 2nd Ed

CSA 60950-1-07 2nd Ed

Unmarked parts are uncertified but Certification:

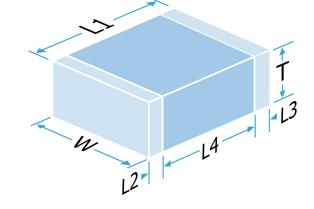
manufactured in accordance with the above

specifications.

These capacitors comply with the Classification:

requirements of IEC/EN 60384-14:2013. For

class Y2/X1.



Component Marking and Certification Bodies:

Not Applicable

Mechanical Specification

Size Code

Length (L1) in mm (") Width (W) in mm (")

Thickness (T) in mm (")

Minimum Termination Band (L2,L3) in mm (") Maximum Termination Band (L2,L3) in mm (")

Minimum Band Gap (L4) in mm (")

Termination Material

Solderability Packaging

2211

 $5.7 \pm 0.40 \ (0.225 \pm 0.016)$

 $2.79 \pm 0.30 (0.11 \pm 0.012)$

2.54 Max (0.1 Max)

0.50 (0.020) 0.80 (0.030)

4.0 (0.158)

Nickel Barrier, Sn Plated Solder (RoHS compliant)

IEC-60068-2-58

7" Reel Horizontal Orientation, 750 per reel

General Electrical Specification

Rated Voltage

Nominal Capacitance Value

Capacitance Tolerance

Tangent of Loss Angle (Tan δ)

Capacitance and Tan δ Test Conditions

Voltage Proof

(Voltage applied for 5 secs max. @ 50mA max. charge current)

Min Insulation Resistance (IR) Dielectric Classification

Rated Temperature Range

Maximum Capacitance Change over Temperature Range

Climatic Category (IEC) Ageing Characteristic

250Vac 50/60Hz / 2500Vdc 5kV impulse

100pF

±10%

≤0.0015

1.0Vrms @ 1MHz

3000Vdc/2000Vac

100.00GOhm @ 100Vdc

C0G/NP0 (1B) to AEC-Q200

-55°C / +125°C

No DC Voltage 0±30ppm/°C

Rated DC Voltage -

55/125/56 Zero

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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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omissions excepted.

Date: Friday, January 18, 2019



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Description: 2211 250Vac 50/60Hz / 2500Vdc 100pF ±10% C0G/NP0 (1B) to AEC-Q200

Environmental

RoHS Compliant to 2011/65/EC as amended by 2015/863/EU

Compliant

REACH Compliant

191 compliant

California Proposition 65

No exposure risk

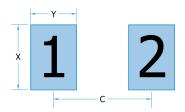
Board Layout

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.

IPC-7351 pad design

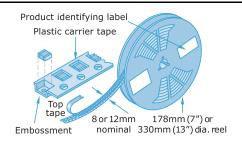
	2211	
С	5.40mm	0.213"
Υ	1.35mm	0.053"
Х	3.10mm	0.122"



Packaging

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.



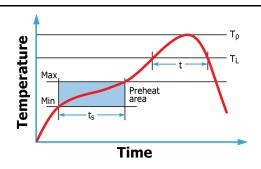
Soldering

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.

DLI



Application notes with mounting and handling guidance are available on request.

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