

www.knowlescapacitors.com

Multilayer Ceramic Chip Capacitor

0805 1000V 47pF ±5% C0G/NP0 (1B) to Part Number: 0805J1K00470JKT **Description:** AEC-Q200 A range of C0G MLC capacitors fully tested and approved to automotive specification AEC-Q200. Available in 0603 to 3640 chip sizes with capacitance values up to 5.6uF as standard. A variety of termination options are available, including FlexiCap[™], the world's first commercially available flexible termination. W 12 Mechanical Specification 0805 Size Code Length (L1) in mm (") $2.0 \pm 0.20 (0.079 \pm 0.008)$ Width (W) in mm (") 1.25 ± 0.20 (0.049 ± 0.008) Thickness (T) in mm (") 1.37 Max (0.054 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** Nickel Barrier, Sn Plated Solder (RoHS compliant) IEC-60068-2-58 Solderability 7" Reel Horizontal Orientation, 3000 per reel Packaging **General Electrical Specification** 1000Vdc Rated Voltage Nominal Capacitance Value 47pF Capacitance Tolerance ±5% Tangent of Loss Angle (Tan δ) 0.00153 Capacitance and Tan δ Test Conditions 1.0Vrms @ 1MHz Voltage Proof 1500Vdc (Voltage applied for 5 secs max. @ 50mA max. charge current) Min Insulation Resistance (IR) 100.00GOhm @ 100Vdc **Dielectric Classification** C0G/NP0 (1B) to AEC-Q200 Rated Temperature Range -55°C / +125°C No DC Voltage 0±30ppm/°C Maximum Capacitance Change over Temperature Range Rated DC Voltage -Climatic Category (IEC) 55/125/56 Ageing Characteristic Zero **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. Europe: KPD-Europe-sales@knowles.com Data is correct to the best of our knowledge, errors and Asia: KPD-Asia-sales@knowles.com ര The information contained on this drawing is omissions excepted. confidential and may not be copied in whole or part in USA: KPD-NA-sales@knowles.com any form or disclosed to a third party without the consen

of Knowles and any customer mentioned within this

specification.

Date: Friday, January 18, 2019



Multilayer Ceramic Chip Capacitor

Part Number: 0805J1K00470JKT	Description: 0805 1000V 47pF ±5% 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 of generally be mounted using pad designs in accordance v international specification IPC-7351, Generic Requirement for Surface Mount Design and Land Pattern Standards, there are some other factors that have been shown to reduce mechanical stress, such as reducing the pad width to be than the chip width. In addition, the position of the chip on board should be considered. Some high voltage parts may require modifications to board layout and/or the addition of a conformal coating prevent flashover. Refer to application note AN0043 further information.	the to $\begin{array}{c} C & 1.80 \text{mm} & 0.071^{"} \\ \hline Y & 1.15 \text{mm} & 0.045^{"} \\ \hline X & 1.45 \text{mm} & 0.057^{"} \end{array}$
Packaging	
Tape packaging information for tape-and-reel parts: Tape and reel packing of surface mounting chip capacitors automatic placement are in accordance with IEC60286-3.	for Top Top Top Top Top Top Top Top
Soldering	
Reflow solder in accordance with IPC-A-610. Recommend reflow profile as laid down in IPC/JEDEC J-STD-020. Wave soldering is also possible, but care must be taken fo 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. PdAg terminations are primarily intended for conductive ep attachment - they may be suitable for soldering but trials and	r Max Min ts Preheat area
Application notes with mounting and handling guidance are available on request.	
Compex DLI Johanson MF	
Knowles Precision Devices - Sales Europe: KPD-Europe-sales@knowles.com Asia: KPD-Asia-sales@knowles.com USA: KPD-NA-sales@knowles.com	or a standard item and is confirmed valid on the date generated, the latest published data ffer and is available at http://www.knowlescapacitors.com or by contacting us. contained on this drawing is not be copied in whole or part in to a third party without the consent customer mentioned within this Date: Friday, January 18, 2019 20190118 062354584UTC

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Multilayer Ceramic Capacitors MLCC - SMD/SMT category:

Click to view products by Knowles manufacturer:

Other Similar products are found below :

M39014/01-1467 M39014/02-1218V M39014/02-1225V M39014/02-1262V M39014/22-0631 1210J5000102JCT 1210J2K00102KXT 1210J5000103KXT 1210J5000223KXT D55342E07B379BR-TR D55342E07B523DR-T/R 1812J1K00103KXT 1812J1K00473KXT 1812J2K00680JCT 1812J4K00102MXT 1812J5000102JCT 1812J5000103JCT 1812J5000682JCT NIN-FB391JTRF NIN-FC2R7JTRF NPIS27H102MTRF C1206C101J1GAC C1608C0G1E472JT000N C2012C0G2A472J 2220J2K00101JCT KHC201E225M76N0T00 1812J1K00222JCT 1812J2K00102KXT 1812J2K00222KXT 1812J2K00472KXT 2-1622820-7-CUT-TAPE 2220J3K00102KXT 2225J2500824KXT CCR07CG103KM CGA2B2C0G1H010C CGA2B2C0G1H040C CGA2B2C0G1H050C CGA2B2C0G1H060D CGA2B2C0G1H070D CGA2B2C0G1H151J CGA2B2C0G1H1R5C CGA2B2C0G1H2R2C CGA2B2C0G1H3R3C CGA2B2C0G1H680J CGA2B2C0G1H6R8D CGA2B2X8R1H221K CGA2B2X8R1H472K CGA3E1X7R1C474K CGA3E2C0G1H561JT0Y0N CGA4J2X7R2A104K