



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## Multilayer ceramic capacitors

Chip, X7R

**Series/Type:** Chip

**Date:** February 2009

The following products presented in this data sheet are being withdrawn.

Substitute Products: See [www.epcos.com/withdrawal\\_mlcc](http://www.epcos.com/withdrawal_mlcc)

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B37872K5224K072		2009-06-26	2010-06-30	2010-12-31
B37931K5103K001		2009-06-26	2010-06-30	2010-12-31
B37931K5123K060		2009-06-26	2010-06-30	2010-12-31



Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B37931K5123K070		2009-06-26	2010-06-30	2010-12-31
B37931K5123K001		2009-06-26	2010-06-30	2010-12-31
B37931K5153K060		2009-06-26	2010-06-30	2010-12-31
B37872K5334K062		2009-06-26	2010-06-30	2010-12-31
B37872K5334K072		2009-06-26	2010-06-30	2010-12-31
B37872K5474K062		2009-06-26	2010-06-30	2010-12-31
B37872K5474K072		2009-06-26	2010-06-30	2010-12-31
B37872K1102K060		2009-06-26	2010-06-30	2010-12-31
B37931K5153K070		2009-06-26	2010-06-30	2010-12-31
B37931K5153K001		2009-06-26	2010-06-30	2010-12-31
B37931K5183K060		2009-06-26	2010-06-30	2010-12-31
B37931K5183K070		2009-06-26	2010-06-30	2010-12-31
B37931K5183K001		2009-06-26	2010-06-30	2010-12-31
B37931K5223K060		2009-06-26	2010-06-30	2010-12-31
B37931K5223K070		2009-06-26	2010-06-30	2010-12-31
B37931K5223K001		2009-06-26	2010-06-30	2010-12-31
B37931K5273K060		2009-06-26	2010-06-30	2010-12-31
B37931K5273K070		2009-06-26	2010-06-30	2010-12-31
B37931K5273K001		2009-06-26	2010-06-30	2010-12-31
B37931K5333K060		2009-06-26	2010-06-30	2010-12-31
B37931K5333K070		2009-06-26	2010-06-30	2010-12-31
B37931K5333K001		2009-06-26	2010-06-30	2010-12-31
B37931K5393K060		2009-06-26	2010-06-30	2010-12-31
B37931K5393K070		2009-06-26	2010-06-30	2010-12-31
B37931K5393K001		2009-06-26	2010-06-30	2010-12-31
B37931K5473K060		2009-06-26	2010-06-30	2010-12-31
B37931K5473K070		2009-06-26	2010-06-30	2010-12-31
B37931K5473K001		2009-06-26	2010-06-30	2010-12-31
B37931K5563K060		2009-06-26	2010-06-30	2010-12-31
B37931K5563K070		2009-06-26	2010-06-30	2010-12-31
B37931K5563K001		2009-06-26	2010-06-30	2010-12-31
B37941K5223K070		2009-06-26	2010-06-30	2010-12-31
B37941K5223K001		2009-06-26	2010-06-30	2010-12-31
B37941K5273K060		2009-06-26	2010-06-30	2010-12-31
B37941K5273K070		2009-06-26	2010-06-30	2010-12-31
B37941K5273K001		2009-06-26	2010-06-30	2010-12-31
B37941K5333K060		2009-06-26	2010-06-30	2010-12-31
B37941K5333K070		2009-06-26	2010-06-30	2010-12-31



Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B37941K5333K001		2009-06-26	2010-06-30	2010-12-31
B37941K5393K060		2009-06-26	2010-06-30	2010-12-31
B37941K5393K070		2009-06-26	2010-06-30	2010-12-31
B37941K5393K001		2009-06-26	2010-06-30	2010-12-31
B37941K5473K060		2009-06-26	2010-06-30	2010-12-31
B37941K5473K070		2009-06-26	2010-06-30	2010-12-31
B37941K5473K001		2009-06-26	2010-06-30	2010-12-31
B37941K5563K060		2009-06-26	2010-06-30	2010-12-31
B37941K5563K070		2009-06-26	2010-06-30	2010-12-31
B37941K5683K060		2009-06-26	2010-06-30	2010-12-31
B37941K5683K070		2009-06-26	2010-06-30	2010-12-31
B37941K5683K062		2009-06-26	2010-06-30	2010-12-31
B37941K5683K072		2009-06-26	2010-06-30	2010-12-31
B37941K5823K060		2009-06-26	2010-06-30	2010-12-31
B37941K5823K070		2009-06-26	2010-06-30	2010-12-31
B37941K5104K060		2009-06-26	2010-06-30	2010-12-31
B37941K5104K070		2009-06-26	2010-06-30	2010-12-31
B37941K5104K062		2009-06-26	2010-06-30	2010-12-31
B37941K5104K072		2009-06-26	2010-06-30	2010-12-31
B37941K1471K060		2009-06-26	2010-06-30	2010-12-31
B37941K1471K070		2009-06-26	2010-06-30	2010-12-31
B37941K1681K060		2009-06-26	2010-06-30	2010-12-31
B37941K1681K070		2009-06-26	2010-06-30	2010-12-31
B37941K1102K060		2009-06-26	2010-06-30	2010-12-31
B37941K1102K070		2009-06-26	2010-06-30	2010-12-31
B37941K1152K060		2009-06-26	2010-06-30	2010-12-31
B37941K1152K070		2009-06-26	2010-06-30	2010-12-31
B37941K1222K060		2009-06-26	2010-06-30	2010-12-31
B37941K1222K070		2009-06-26	2010-06-30	2010-12-31
B37941K1332K060		2009-06-26	2010-06-30	2010-12-31
B37941K1332K070		2009-06-26	2010-06-30	2010-12-31
B37941K1472K060		2009-06-26	2010-06-30	2010-12-31
B37941K1472K070		2009-06-26	2010-06-30	2010-12-31
B37872K1102K070		2009-06-26	2010-06-30	2010-12-31
B37872K1152K060		2009-06-26	2010-06-30	2010-12-31
B37872K1152K070		2009-06-26	2010-06-30	2010-12-31
B37872K1222K060		2009-06-26	2010-06-30	2010-12-31
B37872K1222K070		2009-06-26	2010-06-30	2010-12-31





Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B37950K5473K062		2009-06-26	2010-06-30	2010-12-31
B37941K1682K060		2009-06-26	2010-06-30	2010-12-31
B37941K1682K070		2009-06-26	2010-06-30	2010-12-31
B37941K1103K060		2009-06-26	2010-06-30	2010-12-31
B37941K1103K070		2009-06-26	2010-06-30	2010-12-31
B37941K1153K060		2009-06-26	2010-06-30	2010-12-31
B37872K1332K060		2009-06-26	2010-06-30	2010-12-31
B37872K1332K070		2009-06-26	2010-06-30	2010-12-31
B37872K1472K060		2009-06-26	2010-06-30	2010-12-31
B37872K1472K070		2009-06-26	2010-06-30	2010-12-31
B37872K1682K060		2009-06-26	2010-06-30	2010-12-31
B37950K5473K072		2009-06-26	2010-06-30	2010-12-31
B37950K5104K062		2009-06-26	2010-06-30	2010-12-31
B37950K5104K072		2009-06-26	2010-06-30	2010-12-31
B37950K5224K062		2009-06-26	2010-06-30	2010-12-31
B37950K5224K072		2009-06-26	2010-06-30	2010-12-31
B37941K1153K070		2009-06-26	2010-06-30	2010-12-31
B37941K1223K060		2009-06-26	2010-06-30	2010-12-31
B37941K1223K070		2009-06-26	2010-06-30	2010-12-31
B37941K2221K060		2009-06-26	2010-06-30	2010-12-31
B37941K2221K070		2009-06-26	2010-06-30	2010-12-31
B37872K1682K070		2009-06-26	2010-06-30	2010-12-31
B37872K1103K060		2009-06-26	2010-06-30	2010-12-31
B37872K1103K070		2009-06-26	2010-06-30	2010-12-31
B37872K1153K060		2009-06-26	2010-06-30	2010-12-31
B37872K1153K070		2009-06-26	2010-06-30	2010-12-31
B37950K1104K062		2009-06-26	2010-06-30	2010-12-31
B37950K1104K072		2009-06-26	2010-06-30	2010-12-31
B37950K1154K062		2009-06-26	2010-06-30	2010-12-31
B37950K1154K072		2009-06-26	2010-06-30	2010-12-31
B37950K2223K062		2009-06-26	2010-06-30	2010-12-31
B37872K1223K060		2009-06-26	2010-06-30	2010-12-31
B37872K1223K070		2009-06-26	2010-06-30	2010-12-31
B37872K1333K060		2009-06-26	2010-06-30	2010-12-31
B37872K1333K070		2009-06-26	2010-06-30	2010-12-31
B37872K1473K060		2009-06-26	2010-06-30	2010-12-31
B37950K2223K072		2009-06-26	2010-06-30	2010-12-31
B37950K2333K062		2009-06-26	2010-06-30	2010-12-31



Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B37950K2333K072		2009-06-26	2010-06-30	2010-12-31
B37950K2473K062		2009-06-26	2010-06-30	2010-12-31
B37950K2473K072		2009-06-26	2010-06-30	2010-12-31
B37872K1473K070		2009-06-26	2010-06-30	2010-12-31
B37872K1683K062		2009-06-26	2010-06-30	2010-12-31
B37872K1683K072		2009-06-26	2010-06-30	2010-12-31
B37872K1104K062		2009-06-26	2010-06-30	2010-12-31
B37872K1104K072		2009-06-26	2010-06-30	2010-12-31
B37950K3103K062		2009-06-26	2010-06-30	2010-12-31
B37950K3103K072		2009-06-26	2010-06-30	2010-12-31
B37872K2102K060		2009-06-26	2010-06-30	2010-12-31
B37872K2102K070		2009-06-26	2010-06-30	2010-12-31
B37872K2152K060		2009-06-26	2010-06-30	2010-12-31
B37872K2152K070		2009-06-26	2010-06-30	2010-12-31
B37872K2222K060		2009-06-26	2010-06-30	2010-12-31
B37872K2222K070		2009-06-26	2010-06-30	2010-12-31
B37872K2332K060		2009-06-26	2010-06-30	2010-12-31
B37872K2332K070		2009-06-26	2010-06-30	2010-12-31
B37872K2472K060		2009-06-26	2010-06-30	2010-12-31
B37872K2472K070		2009-06-26	2010-06-30	2010-12-31
B37872K2682K060		2009-06-26	2010-06-30	2010-12-31
B37872K2682K070		2009-06-26	2010-06-30	2010-12-31
B37872K2103K060		2009-06-26	2010-06-30	2010-12-31
B37872K2103K070		2009-06-26	2010-06-30	2010-12-31
B37872K2153K062		2009-06-26	2010-06-30	2010-12-31
B37872K2153K072		2009-06-26	2010-06-30	2010-12-31
B37872K2223K062		2009-06-26	2010-06-30	2010-12-31
B37872K2223K072		2009-06-26	2010-06-30	2010-12-31
B37872K3471K060		2009-06-26	2010-06-30	2010-12-31
B37872K3471K070		2009-06-26	2010-06-30	2010-12-31
B37872K3681K060		2009-06-26	2010-06-30	2010-12-31
B37872K3681K070		2009-06-26	2010-06-30	2010-12-31
B37872K3102K060		2009-06-26	2010-06-30	2010-12-31
B37872K3102K070		2009-06-26	2010-06-30	2010-12-31
B37872K3152K060		2009-06-26	2010-06-30	2010-12-31
B37941K2331K060		2009-06-26	2010-06-30	2010-12-31
B37941K2331K070		2009-06-26	2010-06-30	2010-12-31
B37941K2471K060		2009-06-26	2010-06-30	2010-12-31



Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B37941K2471K070		2009-06-26	2010-06-30	2010-12-31
B37941K2681K060		2009-06-26	2010-06-30	2010-12-31
B37941K2681K070		2009-06-26	2010-06-30	2010-12-31
B37941K2102K060		2009-06-26	2010-06-30	2010-12-31
B37941K2102K070		2009-06-26	2010-06-30	2010-12-31
B37941K2152K060		2009-06-26	2010-06-30	2010-12-31
B37941K2152K070		2009-06-26	2010-06-30	2010-12-31
B37941K2222K060		2009-06-26	2010-06-30	2010-12-31
B37941K2222K070		2009-06-26	2010-06-30	2010-12-31
B37941K2332K060		2009-06-26	2010-06-30	2010-12-31
B37941K2332K070		2009-06-26	2010-06-30	2010-12-31
B37941K2472K062		2009-06-26	2010-06-30	2010-12-31
B37941K2472K072		2009-06-26	2010-06-30	2010-12-31
B37941K2682K062		2009-06-26	2010-06-30	2010-12-31
B37941K2682K072		2009-06-26	2010-06-30	2010-12-31
B37872K3152K070		2009-06-26	2010-06-30	2010-12-31
B37872K3222K060		2009-06-26	2010-06-30	2010-12-31
B37872K3222K070		2009-06-26	2010-06-30	2010-12-31
B37872K3332K062		2009-06-26	2010-06-30	2010-12-31
B37872K3332K072		2009-06-26	2010-06-30	2010-12-31
B37872K3472K062		2009-06-26	2010-06-30	2010-12-31
B37872K3472K072		2009-06-26	2010-06-30	2010-12-31
B37872K5102K060		2009-06-26	2010-06-30	2010-12-31
B37872K5102K070		2009-06-26	2010-06-30	2010-12-31
B37872K5122K060		2009-06-26	2010-06-30	2010-12-31
B37872K5122K070		2009-06-26	2010-06-30	2010-12-31
B37941K0104K060		2009-06-26	2010-06-30	2010-12-31
B37941K0104K070		2009-06-26	2010-06-30	2010-12-31
B37941K0104K062		2009-06-26	2010-06-30	2010-12-31
B37941K0104K072		2009-06-26	2010-06-30	2010-12-31
B37941K5471K060		2009-06-26	2010-06-30	2010-12-31
B37941K5471K070		2009-06-26	2010-06-30	2010-12-31
B37941K5471K001		2009-06-26	2010-06-30	2010-12-31
B37941K5561K060		2009-06-26	2010-06-30	2010-12-31
B37941K5561K070		2009-06-26	2010-06-30	2010-12-31
B37941K5561K001		2009-06-26	2010-06-30	2010-12-31
B37941K5681K060		2009-06-26	2010-06-30	2010-12-31
B37941K5681K070		2009-06-26	2010-06-30	2010-12-31



Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B37941K5681K001		2009-06-26	2010-06-30	2010-12-31
B37941K5821K060		2009-06-26	2010-06-30	2010-12-31
B37941K5821K070		2009-06-26	2010-06-30	2010-12-31
B37931K5471K060		2009-06-26	2010-06-30	2010-12-31
B37931K5471K070		2009-06-26	2010-06-30	2010-12-31
B37931K5471K001		2009-06-26	2010-06-30	2010-12-31
B37931K5561K060		2009-06-26	2010-06-30	2010-12-31
B37931K5561K070		2009-06-26	2010-06-30	2010-12-31
B37931K5561K001		2009-06-26	2010-06-30	2010-12-31
B37931K5681K060		2009-06-26	2010-06-30	2010-12-31
B37931K5681K070		2009-06-26	2010-06-30	2010-12-31
B37931K5681K001		2009-06-26	2010-06-30	2010-12-31
B37931K5821K060		2009-06-26	2010-06-30	2010-12-31
B37931K5821K070		2009-06-26	2010-06-30	2010-12-31
B37931K5821K001		2009-06-26	2010-06-30	2010-12-31
B37931K5102K060		2009-06-26	2010-06-30	2010-12-31
B37931K5102K070		2009-06-26	2010-06-30	2010-12-31
B37931K5102K001		2009-06-26	2010-06-30	2010-12-31
B37931K5122K060		2009-06-26	2010-06-30	2010-12-31
B37931K5122K070		2009-06-26	2010-06-30	2010-12-31
B37931K5122K001		2009-06-26	2010-06-30	2010-12-31
B37931K5152K060		2009-06-26	2010-06-30	2010-12-31
B37931K5152K070		2009-06-26	2010-06-30	2010-12-31
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B37931K5182K060		2009-06-26	2010-06-30	2010-12-31
B37931K5182K070		2009-06-26	2010-06-30	2010-12-31
B37931K5182K001		2009-06-26	2010-06-30	2010-12-31
B37931K5222K060		2009-06-26	2010-06-30	2010-12-31
B37872K5152K060		2009-06-26	2010-06-30	2010-12-31
B37872K5152K070		2009-06-26	2010-06-30	2010-12-31
B37872K5182K060		2009-06-26	2010-06-30	2010-12-31
B37931K5222K070		2009-06-26	2010-06-30	2010-12-31
B37931K5222K001		2009-06-26	2010-06-30	2010-12-31
B37931K5272K060		2009-06-26	2010-06-30	2010-12-31
B37931K9223K060		2009-06-26	2010-06-30	2010-12-31
B37931K9223K070		2009-06-26	2010-06-30	2010-12-31
B37931K9223K001		2009-06-26	2010-06-30	2010-12-31
B37931K9333K060		2009-06-26	2010-06-30	2010-12-31





Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B37931K9333K070		2009-06-26	2010-06-30	2010-12-31
B37931K9333K001		2009-06-26	2010-06-30	2010-12-31
B37931K9473K060		2009-06-26	2010-06-30	2010-12-31
B37931K9473K070		2009-06-26	2010-06-30	2010-12-31
B37931K9473K001		2009-06-26	2010-06-30	2010-12-31
B37931K9683K060		2009-06-26	2010-06-30	2010-12-31
B37931K9683K070		2009-06-26	2010-06-30	2010-12-31
B37931K9683K001		2009-06-26	2010-06-30	2010-12-31
B37931K0103K060		2009-06-26	2010-06-30	2010-12-31
B37931K0103K070		2009-06-26	2010-06-30	2010-12-31
B37931K0103K001		2009-06-26	2010-06-30	2010-12-31
B37931K0153K060		2009-06-26	2010-06-30	2010-12-31
B37931K0153K070		2009-06-26	2010-06-30	2010-12-31
B37931K0153K001		2009-06-26	2010-06-30	2010-12-31
B37931K0223K060		2009-06-26	2010-06-30	2010-12-31
B37931K0223K070		2009-06-26	2010-06-30	2010-12-31
B37931K5272K070		2009-06-26	2010-06-30	2010-12-31
B37931K5272K001		2009-06-26	2010-06-30	2010-12-31
B37931K5683K060		2009-06-26	2010-06-30	2010-12-31
B37931K5683K070		2009-06-26	2010-06-30	2010-12-31
B37931K5683K001		2009-06-26	2010-06-30	2010-12-31
B37931K1101K060		2009-06-26	2010-06-30	2010-12-31
B37931K1101K070		2009-06-26	2010-06-30	2010-12-31
B37931K1151K060		2009-06-26	2010-06-30	2010-12-31
B37931K1151K070		2009-06-26	2010-06-30	2010-12-31
B37931K1221K060		2009-06-26	2010-06-30	2010-12-31
B37931K1221K070		2009-06-26	2010-06-30	2010-12-31
B37931K1331K060		2009-06-26	2010-06-30	2010-12-31
B37931K1331K070		2009-06-26	2010-06-30	2010-12-31
B37931K1471K060		2009-06-26	2010-06-30	2010-12-31
B37931K1471K070		2009-06-26	2010-06-30	2010-12-31
B37931K1681K060		2009-06-26	2010-06-30	2010-12-31
B37931K1681K070		2009-06-26	2010-06-30	2010-12-31
B37931K1102K060		2009-06-26	2010-06-30	2010-12-31
B37931K1102K070		2009-06-26	2010-06-30	2010-12-31
B37931K1152K060		2009-06-26	2010-06-30	2010-12-31
B37931K1152K070		2009-06-26	2010-06-30	2010-12-31
B37931K1222K060		2009-06-26	2010-06-30	2010-12-31



Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B37931K1222K070		2009-06-26	2010-06-30	2010-12-31
B37931K0223K001		2009-06-26	2010-06-30	2010-12-31
B37931K0333K060		2009-06-26	2010-06-30	2010-12-31
B37931K0333K070		2009-06-26	2010-06-30	2010-12-31
B37931K0333K001		2009-06-26	2010-06-30	2010-12-31
B37931K0473K060		2009-06-26	2010-06-30	2010-12-31
B37931K0473K070		2009-06-26	2010-06-30	2010-12-31
B37931K0473K001		2009-06-26	2010-06-30	2010-12-31
B37931K0683K060		2009-06-26	2010-06-30	2010-12-31
B37931K0683K070		2009-06-26	2010-06-30	2010-12-31
B37931K0683K001		2009-06-26	2010-06-30	2010-12-31
B37931K5221K060		2009-06-26	2010-06-30	2010-12-31
B37931K5221K070		2009-06-26	2010-06-30	2010-12-31
B37941K5821K001		2009-06-26	2010-06-30	2010-12-31
B37941K5102K060		2009-06-26	2010-06-30	2010-12-31
B37941K5102K070		2009-06-26	2010-06-30	2010-12-31
B37941K5102K001		2009-06-26	2010-06-30	2010-12-31
B37941K5122K060		2009-06-26	2010-06-30	2010-12-31
B37931K5221K001		2009-06-26	2010-06-30	2010-12-31
B37931K5271K060		2009-06-26	2010-06-30	2010-12-31
B37931K5271K070		2009-06-26	2010-06-30	2010-12-31
B37931K5271K001		2009-06-26	2010-06-30	2010-12-31
B37931K5331K060		2009-06-26	2010-06-30	2010-12-31
B37941K5122K070		2009-06-26	2010-06-30	2010-12-31
B37941K5122K001		2009-06-26	2010-06-30	2010-12-31
B37941K5152K060		2009-06-26	2010-06-30	2010-12-31
B37941K5152K070		2009-06-26	2010-06-30	2010-12-31
B37941K5152K001		2009-06-26	2010-06-30	2010-12-31
B37931K5331K070		2009-06-26	2010-06-30	2010-12-31
B37931K5331K001		2009-06-26	2010-06-30	2010-12-31
B37931K5391K060		2009-06-26	2010-06-30	2010-12-31
B37931K5391K070		2009-06-26	2010-06-30	2010-12-31
B37931K5391K001		2009-06-26	2010-06-30	2010-12-31
B37941K5182K060		2009-06-26	2010-06-30	2010-12-31
B37941K5182K070		2009-06-26	2010-06-30	2010-12-31
B37941K5182K001		2009-06-26	2010-06-30	2010-12-31
B37941K5222K060		2009-06-26	2010-06-30	2010-12-31
B37941K5222K070		2009-06-26	2010-06-30	2010-12-31



Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B37941K5222K001		2009-06-26	2010-06-30	2010-12-31
B37941K5272K060		2009-06-26	2010-06-30	2010-12-31
B37941K5272K070		2009-06-26	2010-06-30	2010-12-31
B37941K5272K001		2009-06-26	2010-06-30	2010-12-31
B37941K5332K060		2009-06-26	2010-06-30	2010-12-31
B37941K5332K070		2009-06-26	2010-06-30	2010-12-31
B37941K5332K001		2009-06-26	2010-06-30	2010-12-31
B37941K5392K060		2009-06-26	2010-06-30	2010-12-31
B37941K5392K070		2009-06-26	2010-06-30	2010-12-31
B37941K5392K001		2009-06-26	2010-06-30	2010-12-31
B37941K5472K060		2009-06-26	2010-06-30	2010-12-31
B37941K5472K070		2009-06-26	2010-06-30	2010-12-31
B37941K5472K001		2009-06-26	2010-06-30	2010-12-31
B37941K5562K060		2009-06-26	2010-06-30	2010-12-31
B37941K5562K070		2009-06-26	2010-06-30	2010-12-31
B37941K5562K001		2009-06-26	2010-06-30	2010-12-31
B37941K5682K060		2009-06-26	2010-06-30	2010-12-31
B37941K5682K070		2009-06-26	2010-06-30	2010-12-31
B37941K5682K001		2009-06-26	2010-06-30	2010-12-31
B37941K5822K060		2009-06-26	2010-06-30	2010-12-31
B37941K5822K070		2009-06-26	2010-06-30	2010-12-31
B37941K5822K001		2009-06-26	2010-06-30	2010-12-31
B37941K5103K060		2009-06-26	2010-06-30	2010-12-31
B37941K5103K070		2009-06-26	2010-06-30	2010-12-31
B37941K5103K001		2009-06-26	2010-06-30	2010-12-31
B37872K5182K070		2009-06-26	2010-06-30	2010-12-31
B37872K5222K060		2009-06-26	2010-06-30	2010-12-31
B37872K5222K070		2009-06-26	2010-06-30	2010-12-31
B37872K5272K060		2009-06-26	2010-06-30	2010-12-31
B37872K5272K070		2009-06-26	2010-06-30	2010-12-31
B37941K5123K060		2009-06-26	2010-06-30	2010-12-31
B37941K5123K070		2009-06-26	2010-06-30	2010-12-31
B37941K5123K001		2009-06-26	2010-06-30	2010-12-31
B37941K5153K060		2009-06-26	2010-06-30	2010-12-31
B37941K5153K070		2009-06-26	2010-06-30	2010-12-31
B37872K5332K060		2009-06-26	2010-06-30	2010-12-31
B37872K5332K070		2009-06-26	2010-06-30	2010-12-31
B37872K5392K060		2009-06-26	2010-06-30	2010-12-31



Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B37872K5392K070		2009-06-26	2010-06-30	2010-12-31
B37872K5472K060		2009-06-26	2010-06-30	2010-12-31
B37941K5153K001		2009-06-26	2010-06-30	2010-12-31
B37941K5183K060		2009-06-26	2010-06-30	2010-12-31
B37941K5183K070		2009-06-26	2010-06-30	2010-12-31
B37941K5183K001		2009-06-26	2010-06-30	2010-12-31
B37941K5223K060		2009-06-26	2010-06-30	2010-12-31
B37872K5472K070		2009-06-26	2010-06-30	2010-12-31
B37872K5562K060		2009-06-26	2010-06-30	2010-12-31
B37872K5562K070		2009-06-26	2010-06-30	2010-12-31
B37872K5682K060		2009-06-26	2010-06-30	2010-12-31
B37872K5682K070		2009-06-26	2010-06-30	2010-12-31
B37872K5822K060		2009-06-26	2010-06-30	2010-12-31
B37872K5822K070		2009-06-26	2010-06-30	2010-12-31
B37872K5103K060		2009-06-26	2010-06-30	2010-12-31
B37872K5103K070		2009-06-26	2010-06-30	2010-12-31
B37872K5123K060		2009-06-26	2010-06-30	2010-12-31
B37872K5123K070		2009-06-26	2010-06-30	2010-12-31
B37872K5153K060		2009-06-26	2010-06-30	2010-12-31
B37872K5153K070		2009-06-26	2010-06-30	2010-12-31
B37872K5183K060		2009-06-26	2010-06-30	2010-12-31
B37872K5183K070		2009-06-26	2010-06-30	2010-12-31
B37931K5332K060		2009-06-26	2010-06-30	2010-12-31
B37931K5332K070		2009-06-26	2010-06-30	2010-12-31
B37931K5332K001		2009-06-26	2010-06-30	2010-12-31
B37931K5392K060		2009-06-26	2010-06-30	2010-12-31
B37931K5392K070		2009-06-26	2010-06-30	2010-12-31
B37872K5223K060		2009-06-26	2010-06-30	2010-12-31
B37872K5223K070		2009-06-26	2010-06-30	2010-12-31
B37872K5273K060		2009-06-26	2010-06-30	2010-12-31
B37872K5273K070		2009-06-26	2010-06-30	2010-12-31
B37872K5333K060		2009-06-26	2010-06-30	2010-12-31
B37931K5392K001		2009-06-26	2010-06-30	2010-12-31
B37931K5472K060		2009-06-26	2010-06-30	2010-12-31
B37931K5472K070		2009-06-26	2010-06-30	2010-12-31
B37931K5472K001		2009-06-26	2010-06-30	2010-12-31
B37931K5562K060		2009-06-26	2010-06-30	2010-12-31
B37872K5333K070		2009-06-26	2010-06-30	2010-12-31



Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B37872K5393K060		2009-06-26	2010-06-30	2010-12-31
B37872K5393K070		2009-06-26	2010-06-30	2010-12-31
B37872K5473K060		2009-06-26	2010-06-30	2010-12-31
B37872K5473K070		2009-06-26	2010-06-30	2010-12-31
B37931K5562K070		2009-06-26	2010-06-30	2010-12-31
B37931K5562K001		2009-06-26	2010-06-30	2010-12-31
B37931K5682K060		2009-06-26	2010-06-30	2010-12-31
B37931K5682K070		2009-06-26	2010-06-30	2010-12-31
B37931K5682K001		2009-06-26	2010-06-30	2010-12-31
B37872K5563K060		2009-06-26	2010-06-30	2010-12-31
B37872K5563K070		2009-06-26	2010-06-30	2010-12-31
B37872K5683K060		2009-06-26	2010-06-30	2010-12-31
B37872K5683K070		2009-06-26	2010-06-30	2010-12-31
B37872K5823K060		2009-06-26	2010-06-30	2010-12-31
B37931K5822K060		2009-06-26	2010-06-30	2010-12-31
B37931K5822K070		2009-06-26	2010-06-30	2010-12-31
B37931K5822K001		2009-06-26	2010-06-30	2010-12-31
B37931K5103K060		2009-06-26	2010-06-30	2010-12-31
B37931K5103K070		2009-06-26	2010-06-30	2010-12-31
B37872K5823K070		2009-06-26	2010-06-30	2010-12-31
B37872K5104K060		2009-06-26	2010-06-30	2010-12-31
B37872K5104K070		2009-06-26	2010-06-30	2010-12-31
B37872K5224K062		2009-06-26	2010-06-30	2010-12-31

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at [www.epcos.com/sales](http://www.epcos.com/sales).

**SMD**
**Ordering code system**

**B37941**
**K**
**5**
**105**
**K**
**0**
**60**
**Type and size**

Chip size (inch/mm) = Temperature characteristic X7R  
 0603/1608  $\triangle$  B37931  
 0805/2012  $\triangle$  B37941  
 1206/3216  $\triangle$  B37872  
 1210/3225  $\triangle$  B37950

**Termination**
**Standard:**

K  $\triangle$  nickel barrier for all case sizes

**On request:**

J  $\triangle$  silver-palladium for conductive adhesion: all case sizes

**Rated voltage**

9 (Code)  $\triangle$  16 VDC  
 0 (Code)  $\triangle$  25 VDC  
 5 (Code)  $\triangle$  50 VDC  
 1 (Code)  $\triangle$  100 VDC  
 2 (Code)  $\triangle$  200 VDC  
 3 (Code)  $\triangle$  500 VDC

**Capacitance, coded (example)**

102  $\triangle$   $10 \cdot 10^2$  pF = 1 nF  
 104  $\triangle$   $10 \cdot 10^4$  pF = 100 nF  
 223  $\triangle$   $22 \cdot 10^3$  pF = 22 nF

**Capacitance tolerance**

J  $\triangle$   $\pm 5\%$   
**K  $\triangle$   $\pm 10\%$  (standard)**  
 M  $\triangle$   $\pm 20\%$

**Internal coding**
**Packaging**

60  $\triangle$  cardboard tape, 180-mm reel  
 62  $\triangle$  blister tape, 180-mm reel  
 70  $\triangle$  cardboard tape, 330-mm reel  
 72  $\triangle$  blister tape, 330-mm reel  
 01  $\triangle$  bulk case



**SMD**
**Features**

- High volumetric efficiency
- Non-linear capacitance change
- High insulation resistance
- High pulse strength
- Based on AEC-Q200 Rev-C


**Applications**

- Blocking and coupling
- Decoupling
- Interference suppression

**Termination**

- Nickel barrier terminations (Ni) for lead-free soldering
- For conductive adhesion: Silver-palladium terminations (AgPd) on request

**Options**

- Alternative capacitance values and tolerances available on request

**Delivery mode**

- Cardboard and blister tape (blister tape for chip thickness  $\geq 1.2 \pm 0.1$  mm and case sizes  $\geq 1210$ ), 180-mm and 330-mm reel available
- Bulk case for case sizes 0603 (16 V, 25 V, 50 V) and 0805 (50 V)

**Electrical data**

Temperature characteristic			X7R	
Max. relative capacitance change	within $-55 \dots +125$ °C	$\Delta C/C$	$\pm 15$	%
Climatic category	(IEC 60068-1)		55/125/56	
Standard			EIA	
Dielectric			Class 2	
Rated voltage <sup>1)</sup>		$V_R$	16, 25, 50, 100, 200, 500	VDC
Test voltage		$V_{rest}$	$2.5 \cdot V_R/5$ s	VDC
Capacitance range		$C_R$	100 pF ... 1 $\mu$ F	
Dissipation factor	(limit value)	$\tan \delta$	$< 25 \cdot 10^{-3}$	
	(limit value)	$\tan \delta$	$< 35 \cdot 10^{-3}$ for 16 V	
Insulation resistance <sup>2)</sup>	(at +25 °C)	$R_{ins}$	$> 10^5$	M $\Omega$
Insulation resistance <sup>3)</sup>	(at +125 °C)	$R_{ins}$	$> 10^4$	M $\Omega$
Time constant <sup>3)</sup>	(at +25 °C)	$\tau$	$> 1000$	s
Time constant <sup>3)</sup>	(at +125 °C)	$\tau$	$> 100$	s
Operating temperature range		$T_{op}$	$-55 \dots +125$	°C
Ageing <sup>3)</sup>			yes	

1) Note: No operation on AC line.

2) For  $C_R > 10$  nF the time constant  $\tau = C \cdot R_{ins}$  is given.

3) Refer to chapter "General technical information", "Ageing".

X7R

Multilayer ceramic capacitors

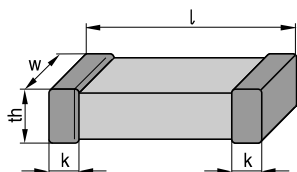
X7R

SMD

Capacitance tolerances

Code letter	J	K (standard)	M
Tolerance	±5%	±10%	±20%

Dimensional drawing

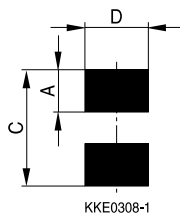


KKE0329-N

Dimensions (mm)

Case size	(inch)	0603	0805	1206	1210
	(mm)	1608	2012	3216	3225
l		1.60 ±0.15	2.00 ±0.20	3.20 ±0.20	3.20 ±0.30
w		0.80 ±0.10	1.25 ±0.15	1.60 ±0.15	2.50 ±0.30
th		0.80 ±0.10	1.35 max.	1.30 max.	1.70 max.
k		0.10 –0.40	0.13 –0.75	0.25 –0.75	0.25 –0.75

Tolerances to CECC 32101-801

**SMD**
**Recommended solder pad**


KKE0308-1

**Recommended dimensions (mm) for reflow soldering**

Case size	(inch/mm)	Type	A	C	D
0603/1608		single chip	0.60 ... 0.70	1.80 ... 2.20	0.60 ... 0.80
0805/2012		single chip	0.60 ... 0.70	2.20 ... 2.60	0.80 ... 1.10
1206/3216		single chip	0.80 ... 0.90	3.80 ... 4.32	1.00 ... 1.40
1210/3225		single chip	1.00 ... 1.20	4.00 ... 4.80	1.80 ... 2.30

**Recommended dimensions (mm) for wave soldering**

Case size	(inch/mm)	Type	A	C	D
0603/1608		single chip	0.80 ... 0.90	2.20 ... 2.80	0.60 ... 0.80
0805/2012		single chip	0.90 ... 1.00	2.80 ... 3.20	0.80 ... 1.10
1206/3216		single chip	1.00 ... 1.10	4.20 ... 4.80	1.00 ... 1.40

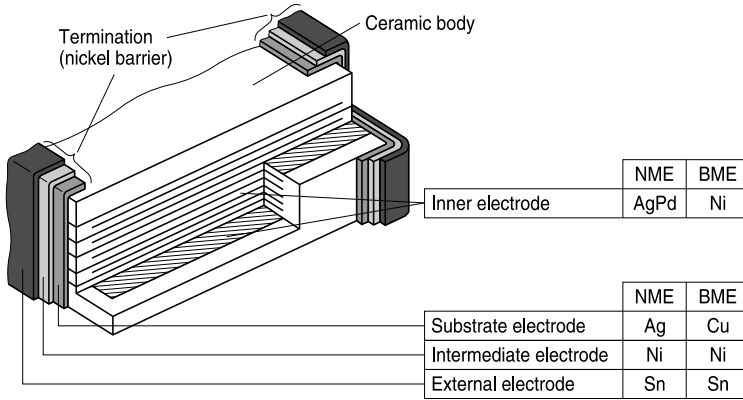
X7R

Multilayer ceramic capacitors

X7R

SMD

Termination



NME: Noble Metal Electrode  
 BME: Base Metal Electrode

KKE0485-5-E

SMD

Product range chip capacitors, X7R

Size inch (l x w) mm (l x w)	0603 1608				0805 2012			
Type	B37931				B37941			
$C_R \setminus V_R$ (VDC)	16	25	50	100	25	50	100	200
100 pF								
150 pF								
220 pF								
270 pF								
330 pF								
390 pF								
470 pF								
560 pF								
680 pF								
820 pF								
1.0 nF								
1.2 nF								
1.5 nF								
1.8 nF								
2.2 nF								
2.7 nF								
3.3 nF								
3.9 nF								
4.7 nF								
5.6 nF								
6.8 nF								
8.2 nF								
10 nF								
12 nF								
15 nF								
18 nF								
22 nF								
27 nF								
33 nF								
39 nF								
47 nF								
56 nF								

X7R	Multilayer ceramic capacitors
	X7R

SMD

**Product range chip capacitors, X7R**

Size inch (l x w) mm (l x w)	0603 1608				0805 2012			
	B37931				B37941			
$C_R \setminus V_R$ (VDC)	16	25	50	100	25	50	100	200
68 nF								
82 nF								
100 nF								



SMD

**Product range chip capacitors, X7R**

Size inch (l x w) mm (l x w)	1206 3216			
Type	B37872			
$C_R \setminus V_R$ (VDC)	50	100	200	500
470 pF				
680 pF				
1.0 nF				
1.2 nF				
1.5 nF				
1.8 nF				
2.2 nF				
2.7 nF				
3.3 nF				
3.9 nF				
4.7 nF				
5.6 nF				
6.8 nF				
8.2 nF				
10 nF				
12 nF				
15 nF				
18 nF				
22 nF				
27 nF				
33 nF				
39 nF				
47 nF				
56 nF				
68 nF				
82 nF				
100 nF				
220 nF				
330 nF				
470 nF				

X7R	<b>Multilayer ceramic capacitors</b>
	<b>X7R</b>

**SMD**

**Product range chip capacitors, X7R**

Size <b>inch (l x w)</b> mm (l x w)	<b>1210</b> <b>3225</b>			
Type	B37950			
$C_R \setminus V_R$ (VDC)	50	100	200	500
10 nF				
22 nF				
33 nF				
47 nF				
100 nF				
150 nF				
220 nF				

**SMD**
**Ordering codes and packing for X7R, 16 VDC, nickel barrier terminations**
**Case size 0603, 16 VDC**

C <sub>R</sub>	Ordering code	Chip thickness mm	Cardboard tape, Ø180-mm reel	Cardboard tape, Ø330-mm reel	Bulk case
			** $\triangle$ 60	** $\triangle$ 70	** $\triangle$ 01
			pcs./reel	pcs./reel	pcs.
22 nF	B37931K9223K0**	0.8 $\pm$ 0.1	4000	16000	15000
33 nF	B37931K9333K0**	0.8 $\pm$ 0.1	4000	16000	15000
47 nF	B37931K9473K0**	0.8 $\pm$ 0.1	4000	16000	15000
68 nF	B37931K9683K0**	0.8 $\pm$ 0.1	4000	16000	15000

**Ordering codes and packing for X7R, 25 VDC, nickel barrier terminations**
**Case size 0603, 25 VDC**

C <sub>R</sub>	Ordering code	Chip thickness mm	Cardboard tape, Ø180-mm reel	Cardboard tape, Ø330-mm reel	Bulk case
			** $\triangle$ 60	** $\triangle$ 70	** $\triangle$ 01
			pcs./reel	pcs./reel	pcs.
10 nF	B37931K0103K0**	0.8 $\pm$ 0.1	4000	16000	15000
15 nF	B37931K0153K0**	0.8 $\pm$ 0.1	4000	16000	15000
22 nF	B37931K0223K0**	0.8 $\pm$ 0.1	4000	16000	15000
33 nF	B37931K0333K0**	0.8 $\pm$ 0.1	4000	16000	15000
47 nF	B37931K0473K0**	0.8 $\pm$ 0.1	4000	16000	15000
68 nF	B37931K0683K0**	0.8 $\pm$ 0.1	4000	16000	15000

**Ordering codes and packing for X7R, 50 VDC, nickel barrier terminations**
**Case size 0603, 50 VDC**

C <sub>R</sub>	Ordering code	Chip thickness mm	Cardboard tape, Ø180-mm reel	Cardboard tape, Ø330-mm reel	Bulk case
			** $\triangle$ 60	** $\triangle$ 70	** $\triangle$ 01
			pcs./reel	pcs./reel	pcs.
220 pF	B37931K5221K0**	0.8 $\pm$ 0.1	4000	16000	15000
270 pF	B37931K5271K0**	0.8 $\pm$ 0.1	4000	16000	15000
330 pF	B37931K5331K0**	0.8 $\pm$ 0.1	4000	16000	15000
390 pF	B37931K5391K0**	0.8 $\pm$ 0.1	4000	16000	15000

X7R

Multilayer ceramic capacitors

X7R

SMD

Ordering codes and packing for X7R, 50 VDC, nickel barrier terminations

Case size 0603, 50 VDC

C <sub>R</sub>	Ordering code	Chip thickness mm	Cardboard tape, Ø180-mm reel	Cardboard tape, Ø330-mm reel	Bulk case
			** $\triangleq$ 60	** $\triangleq$ 70	** $\triangleq$ 01
			pcs./reel	pcs./reel	pcs.
470 pF	B37931K5471K0**	0.8 $\pm$ 0.1	4000	16000	15000
560 pF	B37931K5561K0**	0.8 $\pm$ 0.1	4000	16000	15000
680 pF	B37931K5681K0**	0.8 $\pm$ 0.1	4000	16000	15000
820 pF	B37931K5821K0**	0.8 $\pm$ 0.1	4000	16000	15000
1.0 nF	B37931K5102K0**	0.8 $\pm$ 0.1	4000	16000	15000
1.2 nF	B37931K5122K0**	0.8 $\pm$ 0.1	4000	16000	15000
1.5 nF	B37931K5152K0**	0.8 $\pm$ 0.1	4000	16000	15000
1.8 nF	B37931K5182K0**	0.8 $\pm$ 0.1	4000	16000	15000
2.2 nF	B37931K5222K0**	0.8 $\pm$ 0.1	4000	16000	15000
2.7 nF	B37931K5272K0**	0.8 $\pm$ 0.1	4000	16000	15000
3.3 nF	B37931K5332K0**	0.8 $\pm$ 0.1	4000	16000	15000
3.9 nF	B37931K5392K0**	0.8 $\pm$ 0.1	4000	16000	15000
4.7 nF	B37931K5472K0**	0.8 $\pm$ 0.1	4000	16000	15000
5.6 nF	B37931K5562K0**	0.8 $\pm$ 0.1	4000	16000	15000
6.8 nF	B37931K5682K0**	0.8 $\pm$ 0.1	4000	16000	15000
8.2 nF	B37931K5822K0**	0.8 $\pm$ 0.1	4000	16000	15000
10 nF	B37931K5103K0**	0.8 $\pm$ 0.1	4000	16000	15000
12 nF	B37931K5123K0**	0.8 $\pm$ 0.1	4000	16000	15000
15 nF	B37931K5153K0**	0.8 $\pm$ 0.1	4000	16000	15000
18 nF	B37931K5183K0**	0.8 $\pm$ 0.1	4000	16000	15000
22 nF	B37931K5223K0**	0.8 $\pm$ 0.1	4000	16000	15000
27 nF	B37931K5273K0**	0.8 $\pm$ 0.1	4000	16000	15000
33 nF	B37931K5333K0**	0.8 $\pm$ 0.1	4000	16000	15000
39 nF	B37931K5393K0**	0.8 $\pm$ 0.1	4000	16000	15000
47 nF	B37931K5473K0**	0.8 $\pm$ 0.1	4000	16000	15000
56 nF	B37931K5563K0**	0.8 $\pm$ 0.1	4000	16000	15000
68 nF	B37931K5683K0**	0.8 $\pm$ 0.1	4000	16000	15000

**SMD**
**Ordering codes and packing for X7R, 100 VDC, nickel barrier terminations**
**Case size 0603, 100 VDC**

C <sub>R</sub>	Ordering code	Chip thickness mm	Cardboard tape, Ø180-mm reel	Cardboard tape, Ø330-mm reel
			** $\triangle$ 60	** $\triangle$ 70
			pcs./reel	pcs./reel
100 pF	B37931K1101K0**	0.8 ±0.1	4000	16000
150 pF	B37931K1151K0**	0.8 ±0.1	4000	16000
220 pF	B37931K1221K0**	0.8 ±0.1	4000	16000
330 pF	B37931K1331K0**	0.8 ±0.1	4000	16000
470 pF	B37931K1471K0**	0.8 ±0.1	4000	16000
680 pF	B37931K1681K0**	0.8 ±0.1	4000	16000
1.0 nF	B37931K1102K0**	0.8 ±0.1	4000	16000
1.5 nF	B37931K1152K0**	0.8 ±0.1	4000	16000
2.2 nF	B37931K1222K0**	0.8 ±0.1	4000	16000

**Ordering codes and packing for X7R, 25 VDC, nickel barrier terminations**
**Case size 0805, 25 VDC**

C <sub>R</sub>	Ordering code	Chip thickness mm	Cardboard tape, Ø180-mm reel	Cardboard tape, Ø330-mm reel	Blister tape, Ø180-mm reel	Blister tape, Ø330-mm reel
			** $\triangle$ 60	** $\triangle$ 70	** $\triangle$ 62	** $\triangle$ 72
			pcs./reel	pcs./reel	pcs./reel	pcs./reel
100 nF	B37941K0104K0**	0.8 ±0.1	4000	16000		
100 nF	B37941K0104K0**	1.25 ±0.1			3000	12000

**Ordering codes and packing for X7R, 50 VDC, nickel barrier terminations**
**Case size 0805, 50 VDC**

C <sub>R</sub>	Ordering code	Chip thickness mm	Cardboard tape, Ø180-mm reel	Cardboard tape, Ø330-mm reel	Blister tape, Ø180-mm reel	Blister tape, Ø330-mm reel	Bulk case
			** $\triangle$ 60	** $\triangle$ 70	** $\triangle$ 62	** $\triangle$ 72	** $\triangle$ 01
			pcs./reel	pcs./reel	pcs./reel	pcs./reel	pcs.
470 pF	B37941K5471K0**	0.6 ±0.1	5000	20000			10000
560 pF	B37941K5561K0**	0.6 ±0.1	5000	20000			10000
680 pF	B37941K5681K0**	0.6 ±0.1	5000	20000			10000

X7R

Multilayer ceramic capacitors

X7R

SMD

Ordering codes and packing for X7R, 50 VDC, nickel barrier terminations

Case size 0805, 50 VDC

C <sub>R</sub>	Ordering code	Chip thickness mm	Cardboard tape, Ø180-mm reel	Cardboard tape, Ø330-mm reel	Blister tape, Ø180-mm reel	Blister tape, Ø330-mm reel	Bulk case pcs.
			** $\triangle$ 60	** $\triangle$ 70	** $\triangle$ 62	** $\triangle$ 72	
			pcs./reel	pcs./reel	pcs./reel	pcs./reel	
820 pF	B37941K5821K0**	0.6 $\pm$ 0.1	5000	20000			10000
1.0 nF	B37941K5102K0**	0.6 $\pm$ 0.1	5000	20000			10000
1.2 nF	B37941K5122K0**	0.6 $\pm$ 0.1	5000	20000			10000
1.5 nF	B37941K5152K0**	0.6 $\pm$ 0.1	5000	20000			10000
1.8 nF	B37941K5182K0**	0.6 $\pm$ 0.1	5000	20000			10000
2.2 nF	B37941K5222K0**	0.6 $\pm$ 0.1	5000	20000			10000
2.7 nF	B37941K5272K0**	0.6 $\pm$ 0.1	5000	20000			10000
3.3 nF	B37941K5332K0**	0.6 $\pm$ 0.1	5000	20000			10000
3.9 nF	B37941K5392K0**	0.6 $\pm$ 0.1	5000	20000			10000
4.7 nF	B37941K5472K0**	0.6 $\pm$ 0.1	5000	20000			10000
5.6 nF	B37941K5562K0**	0.6 $\pm$ 0.1	5000	20000			10000
6.8 nF	B37941K5682K0**	0.6 $\pm$ 0.1	5000	20000			10000
8.2 nF	B37941K5822K0**	0.6 $\pm$ 0.1	5000	20000			10000
10 nF	B37941K5103K0**	0.6 $\pm$ 0.1	5000	20000			10000
12 nF	B37941K5123K0**	0.6 $\pm$ 0.1	5000	20000			10000
15 nF	B37941K5153K0**	0.6 $\pm$ 0.1	5000	20000			10000
18 nF	B37941K5183K0**	0.6 $\pm$ 0.1	5000	20000			10000
22 nF	B37941K5223K0**	0.6 $\pm$ 0.1	5000	20000			10000
27 nF	B37941K5273K0**	0.6 $\pm$ 0.1	5000	20000			10000
33 nF	B37941K5333K0**	0.6 $\pm$ 0.1	5000	20000			10000
39 nF	B37941K5393K0**	0.6 $\pm$ 0.1	5000	20000			10000
47 nF	B37941K5473K0**	0.6 $\pm$ 0.1	5000	20000			10000
56 nF	B37941K5563K0**	0.8 $\pm$ 0.1	4000	16000			
68 nF	B37941K5683K0**	0.8 $\pm$ 0.1	4000	16000			
68 nF	B37941K5683K0**	1.25 $\pm$ 0.1			3000	12000	
82 nF	B37941K5823K0**	0.8 $\pm$ 0.1	4000	16000			
100 nF	B37941K5104K0**	0.8 $\pm$ 0.1	4000	16000			
100 nF	B37941K5104K0**	1.25 $\pm$ 0.1			3000	12000	