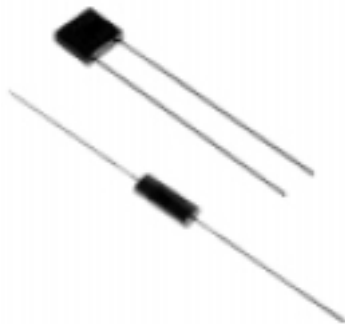


MIL-C-11015 & 39014 Multilayer Ceramic Capacitors

CK and CKR Military Grade Capacitors



MIL-C-11015 & 39014 - CK and CKR - military grade capacitors are available as radial and axial leded capacitors with the option of hot solder dipped leads on the CKRs.

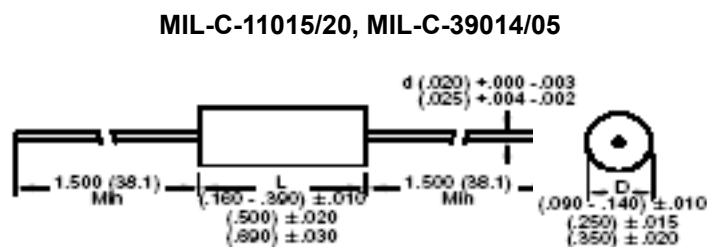
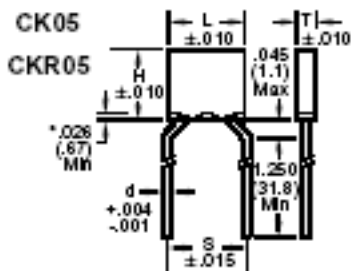
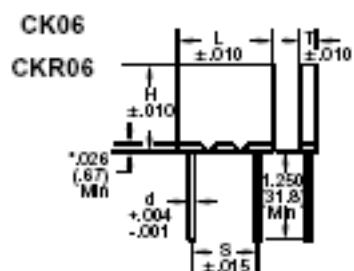
Highlights

- Available on tape and reel
- Molded case construction
- CKR available with stand-off
- Hot solder dip leads on Type CKR

Specifications

Capacitance Range: 10 pF to 3.3 μ F
Voltage Range: 50, 100, 200 Vdc
Temperature Coefficient: X7R (Mil BX or BR)

Outline Drawings



Radial

Axial

| Type | Inches | | | | | mm | | | | |
|-------|--------|------|------|------|------|-----|-----|-----|-----|-----|
| | L | H | T | S | d | L | H | T | S | d |
| CK05 | .190 | .190 | .090 | .200 | .025 | 4.8 | 4.8 | 2.3 | 5.1 | .64 |
| CKR05 | .190 | .190 | .090 | .200 | .025 | 4.8 | 4.8 | 2.3 | 5.1 | .64 |
| CK06 | .290 | .290 | .090 | .200 | .025 | 7.4 | 7.4 | 2.3 | 5.1 | .64 |
| CKR06 | .290 | .290 | .090 | .200 | .025 | 7.4 | 7.4 | 2.3 | 5.1 | .64 |

| Type | Inches | | | mm | | |
|-------|--------|------|------|-----|------|-----|
| | D | L | d | D | L | d |
| CK12 | .090 | .160 | .020 | 2.3 | 4.0 | .51 |
| CKR11 | .090 | .160 | .020 | 2.3 | 4.0 | .51 |
| CK13 | .090 | .250 | .020 | 2.3 | 6.4 | .51 |
| CKR12 | .090 | .250 | .020 | 2.3 | 6.4 | .51 |
| CK14 | .140 | .390 | .025 | 3.6 | 9.9 | .64 |
| CKR14 | .140 | .390 | .025 | 3.6 | 9.9 | .64 |
| CK15 | .250 | .500 | .025 | 6.4 | 12.7 | .64 |
| CKR15 | .250 | .500 | .025 | 6.4 | 12.7 | .64 |
| CK16 | .350 | .690 | .025 | 8.9 | 17.5 | .64 |
| CKR16 | .350 | .690 | .025 | 8.9 | 17.5 | .64 |

TO ORDER MIL-C-11015 PARTS:

Order by CK part number shown in Ratings Table
 Example: CK05BX104M

TO ORDER MIL-C-39014 PARTS:

Indicate the prefix M39014/-- followed by the applicable MIL dash number. Example: For M39014/01-1594 (CKR05BX104MS); order M39014/011594

MIL-C-11015 & 39014 Multilayer Ceramic Capacitors

Ratings

| Cap | Tol. % | MIL-C-11015/18 | MIL-C-39014/01 References | 39014/01 Failure Rate Levels | | | |
|---|--------|----------------|---------------------------|------------------------------|------|------|------|
| | | | | M | P | R | S |
| 50 Vdc - Radial Leaded - CK05/M39014/01 | | | | | | | |
| .012 uF | 10 | CK05BX123K | CKR05BX123K* | 1457 | 1497 | 1537 | 1577 |
| .015 uF | 10 | CK05BX153K | CKR05BX153K* | 1458 | 1498 | 1538 | 1578 |
| .015 uF | 20 | CK05BX153M | CKR05BX153M* | 1459 | 1499 | 1539 | 1579 |
| .018 uF | 10 | CK05BX183K | CKR05BX183K* | 1460 | 1500 | 1540 | 1580 |
| .022 uF | 10 | CK05BX223K | CKR05BX223K* | 1461 | 1501 | 1541 | 1581 |
| .022 uF | 20 | CK05BX223M | CKR05BX223M* | 1462 | 1502 | 1542 | 1582 |
| .027 uF | 10 | CK05BX273K | CKR05BX273K* | 1463 | 1503 | 1543 | 1583 |
| .033 uF | 10 | CK05BX333K | CKR05BX333K* | 1464 | 1504 | 1544 | 1584 |
| .033 uF | 20 | CK05BX333M | CKR05BX333M* | 1465 | 1505 | 1545 | 1585 |
| .039 uF | 10 | CK05BX393K | CKR05BX393K* | 1466 | 1506 | 1546 | 1586 |
| .047 uF | 10 | CK05BX473K | CKR05BX473K* | 1467 | 1507 | 1547 | 1587 |
| .047 uF | 20 | CK05BX473M | CKR05BX473M* | 1468 | 1508 | 1548 | 1588 |
| .056 uF | 10 | CK05BX563K | CKR05BX563K* | 1469 | 1509 | 1549 | 1589 |
| .068 uF | 10 | CK05BX683K | CKR05BX683K* | 1470 | 1510 | 1550 | 1590 |
| .068 uF | 20 | CK05BX683M | CKR05BX683M* | 1471 | 1511 | 1551 | 1591 |
| .082 uF | 10 | CK05BX823K | CKR05BX823K* | 1472 | 1512 | 1552 | 1592 |
| .10 uF | 10 | CK05BX104K | CKR05BX104K* | 1473 | 1513 | 1553 | 1593 |
| .10 uF | 20 | CK05BX104M | CKR05BX104M* | 1474 | 1514 | 1554 | 1594 |
| 100 Vdc - Radial Leaded - CK05/M39014/01 | | | | | | | |
| 1200 pF | 10 | CK05BX122K | CKR05BX122K* | 1239 | 1279 | 1319 | 1359 |
| 1500 pF | 10 | CK05BX152K | CKR05BX152K* | 1240 | 1280 | 1320 | 1360 |
| 1500 pF | 20 | CK05BX152M | CKR05BX152M* | 1441 | 1481 | 1521 | 1561 |
| 1800 pF | 10 | CK05BX182K | CKR05BX182K* | 1442 | 1482 | 1522 | 1562 |
| 2200 pF | 10 | CK05BX222K | CKR05BX222K* | 1443 | 1483 | 1523 | 1563 |
| 2200 pF | 20 | CK05BX222M | CKR05BX222M* | 1444 | 1484 | 1524 | 1564 |
| 2700 pF | 10 | CK05BX272K | CKR05BX272K* | 1445 | 1485 | 1525 | 1565 |
| 3300 pF | 10 | CK05BX332K | CKR05BX332K* | 1446 | 1486 | 1526 | 1566 |
| 3300 pF | 20 | CK05BX332M | CKR05BX332M* | 1447 | 1487 | 1527 | 1567 |
| 3900 pF | 10 | CK05BX392K | CKR05BX392K* | 1448 | 1488 | 1528 | 1568 |
| 4700 pF | 10 | CK05BX472K | CKR05BX472K* | 1449 | 1489 | 1529 | 1569 |
| 4700 pF | 20 | CK05BX472M | CKR05BX472M* | 1450 | 1490 | 1530 | 1570 |
| 5600 pF | 10 | CK05BX562K | CKR05BX562K* | 1451 | 1491 | 1531 | 1571 |
| 6800 pF | 10 | CK05BX682K | CKR05BX682K* | 1452 | 1492 | 1532 | 1572 |
| 6800 pF | 20 | CK05BX682M | CKR05BX682M* | 1453 | 1493 | 1533 | 1573 |
| 8200 pF | 10 | CK05BX822K | CKR05BX822K* | 1454 | 1494 | 1534 | 1574 |
| .01 uF | 10 | CK05BX103K | CKR05BX103K* | 1455 | 1495 | 1535 | 1575 |
| .01 uF | 20 | CK05BX103M | CKR05BX103M* | 1456 | 1496 | 1536 | 1576 |

| Cap | Tol. % | MIL-C-11015/18 | MIL-C-39014/01 References | 39014/01 Failure Rate Levels | | | |
|---|--------|----------------|---------------------------|------------------------------|------|------|------|
| | | | | M | P | R | S |
| 200 Vdc - Radial Leaded - CK05/M39014/01 | | | | | | | |
| 10 pF | 10 | CK05BX100K | CKR05BX100K* | 1201 | 1241 | 1281 | 1321 |
| 10 pF | 20 | CK05BX100M | CKR05BX100M* | 1202 | 1242 | 1282 | 1322 |
| 12 pF | 10 | CK05BX120K | CKR05BX120K* | 1203 | 1243 | 1283 | 1323 |
| 15 pF | 10 | CK05BX150K | CKR05BX150K* | 1204 | 1244 | 1284 | 1324 |
| 15 pF | 20 | CK05BX150M | CKR05BX150M* | 1205 | 1245 | 1285 | 1325 |
| 18 pF | 10 | CK05BX180K | CKR05BX180K* | 1206 | 1246 | 1286 | 1326 |
| 22 pF | 10 | CK05BX220K | CKR05BX220K* | 1207 | 1247 | 1287 | 1327 |
| 22 pF | 20 | CK05BX220M | CKR05BX220M* | 1208 | 1248 | 1288 | 1328 |
| 27 pF | 10 | CK05BX270K | CKR05BX270K* | 1209 | 1249 | 1289 | 1329 |
| 33 pF | 10 | CK05BX330K | CKR05BX330K* | 1210 | 1250 | 1290 | 1330 |
| 33 pF | 20 | CK05BX330M | CKR05BX330M* | 1211 | 1251 | 1291 | 1331 |
| 39 pF | 10 | CK05BX390K | CKR05BX390K* | 1212 | 1252 | 1292 | 1332 |
| 47 pF | 10 | CK05BX470K | CKR05BX470K* | 1213 | 1253 | 1293 | 1333 |
| 47 pF | 20 | CK05BX470M | CKR05BX470M* | 1214 | 1254 | 1294 | 1334 |
| 56 pF | 10 | CK05BX560K | CKR05BX560K* | 1215 | 1255 | 1295 | 1335 |
| 68 pF | 10 | CK05BX680K | CKR05BX680K* | 1216 | 1256 | 1296 | 1336 |
| 68 pF | 20 | CK05BX680M | CKR05BX680M* | 1217 | 1257 | 1297 | 1337 |
| 82 pF | 10 | CK05BX820K | CKR05BX820K* | 1218 | 1258 | 1298 | 1338 |
| 100 pF | 10 | CK05BX101K | CKR05BX101K* | 1219 | 1259 | 1299 | 1339 |
| 100 pF | 20 | CK05BX101M | CKR05BX101M* | 1220 | 1260 | 1300 | 1340 |
| 120 pF | 10 | CK05BX121K | CKR05BX121K* | 1221 | 1261 | 1301 | 1341 |
| 150 pF | 10 | CK05BX151K | CKR05BX151K* | 1222 | 1262 | 1302 | 1342 |
| 150 pF | 20 | CK05BX151M | CKR05BX151M* | 1223 | 1263 | 1303 | 1343 |
| 180 pF | 10 | CK05BX181K | CKR05BX181K* | 1224 | 1264 | 1304 | 1344 |
| 220 pF | 10 | CK05BX221K | CKR05BX221K* | 1225 | 1265 | 1305 | 1345 |
| 220 pF | 20 | CK05BX221M | CKR05BX221M* | 1226 | 1266 | 1306 | 1346 |
| 270 pF | 10 | CK05BX271K | CKR05BX271K* | 1227 | 1267 | 1307 | 1347 |
| 330 pF | 10 | CK05BX331K | CKR05BX331K* | 1228 | 1268 | 1308 | 1348 |
| 330 pF | 20 | CK05BX331M | CKR05BX331M* | 1229 | 1269 | 1309 | 1349 |
| 390 pF | 10 | CK05BX391K | CKR05BX391K* | 1230 | 1270 | 1310 | 1350 |
| 470 pF | 10 | CK05BX471K | CKR05BX471K* | 1231 | 1271 | 1311 | 1351 |
| 470 pF | 20 | CK05BX471M | CKR05BX471M* | 1232 | 1272 | 1312 | 1352 |
| 560 pF | 10 | CK05BX561K | CKR05BX561K* | 1233 | 1273 | 1313 | 1353 |
| 680 pF | 10 | CK05BX681K | CKR05BX681K* | 1234 | 1274 | 1314 | 1354 |
| 680 pF | 20 | CK05BX681M | CKR05BX681M* | 1235 | 1275 | 1315 | 1355 |
| 820 pF | 10 | CK05BX821K | CKR05BX821K* | 1236 | 1276 | 1316 | 1356 |
| 1000 pF | 10 | CK05BX102K | CKR05BX102K* | 1237 | 1277 | 1317 | 1357 |
| 1000 pF | 20 | CK05BX102M | CKR05BX102M* | 1238 | 1278 | 1318 | 1358 |

*Insert proper letter symbol for Failure Rate Designator
M = 1% / 1000 Hours, P = 0.1% / 1000 Hours
R = 0.01% / 1000 Hours, S = 0.001% / 1000 Hours

Add 'V' at end of failure rate designator if stand-off design is required, (CKR only)

Add 'TR' to end of part number for Tape & Reel
Leads will be trimmed to .625' length
CK05 - 2,000 per reel
CKR05 - 1,700 per reel
(Available in full reels only)

MIL-C-11015 & 39014 Multilayer Ceramic Capacitors

Ratings

| Cap | Tol. % | MIL-C-11015/19 | MIL-C-39014/02 References | 39014/02 Failure Rate Levels | | | |
|---|--------|----------------|---------------------------|------------------------------|------|------|------|
| | | | | M | P | R | S |
| 50 Vdc - Radial Leaded - CK06/M39014/02 | | | | | | | |
| .12 uF | 10 | CK06BX124K | CKR06BX124K* | 1233 | 1273 | 1313 | 1353 |
| .15 uF | 10 | CK06BX154K | CKR06BX154K* | 1234 | 1274 | 1314 | 1354 |
| .15 uF | 20 | CK06BX154M | | | | | |
| .18 uF | 10 | CK06BX184K | CKR06BX184K* | 1235 | 1275 | 1315 | 1355 |
| .22 uF | 10 | CK06BX224K | CKR06BX224K* | 1236 | 1276 | 1316 | 1356 |
| .22 uF | 20 | CK06BX224M | | | | | |
| .27 uF | 10 | CK06BX274K | CKR06BX274K* | 1237 | 1277 | 1317 | 1357 |
| .33 uF | 10 | CK06BX334K | CKR06BX334K* | 1238 | 1278 | 1318 | 1358 |
| .33 uF | 20 | CK06BX334M | | | | | |
| .39 uF | 10 | CK06BX394K | CKR06BX394K* | 1239 | 1279 | 1319 | 1359 |
| .47 uF | 10 | CK06BX474K | CKR06BX474K* | 1240 | 1280 | 1320 | 1360 |
| .47 uF | 20 | CK06BX474M | | | | | |
| .56 uF | 10 | CK06BX564K | CKR06BX564K* | 1404 | 1408 | 1412 | 1416 |
| .68 uF | 10 | CK06BX684K | CKR06BX684K* | 1405 | 1409 | 1413 | 1417 |
| .68 uF | 20 | CK06BX684M | | | | | |
| .82 uF | 10 | CK06BX824K | CKR06BX824K* | 1406 | 1410 | 1414 | 1418 |
| 1.0 uF | 10 | CK06BX105K | CKR06BX105K* | 1407 | 1411 | 1415 | 1419 |
| 1.0 uF | 20 | CK06BX105M | | | | | |
| 100 Vdc - Radial Leaded - CK06/M39014/02 | | | | | | | |
| .012 uF | 10 | CK06BX123K | CKR06BX123K* | 1231 | 1271 | 1311 | 1351 |
| .015 uF | 10 | CK06BX153K | CKR06BX153K* | 1220 | 1260 | 1300 | 1340 |
| .015 uF | 20 | CK06BX153M | | | | | |
| .018 uF | 10 | CK06BX183K | CKR06BX183K* | 1221 | 1261 | 1301 | 1341 |
| .022 uF | 10 | CK06BX223K | CKR06BX223K* | 1222 | 1262 | 1302 | 1342 |
| .022 uF | 20 | CK06BX223M | | | | | |
| .027 uF | 10 | CK06BX273K | CKR06BX273K* | 1232 | 1272 | 1312 | 1352 |
| .033 uF | 10 | CK06BX333K | CKR06BX333K* | 1223 | 1263 | 1303 | 1343 |
| .033 uF | 20 | CK06BX333M | | | | | |
| .039 uF | 10 | CK06BX393K | CKR06BX393K* | 1224 | 1264 | 1304 | 1344 |

| Cap | Tol. % | MIL-C-11015/19 | MIL-C-39014/02 References | 39014/02 Failure Rate Levels | | | |
|---|--------|----------------|---------------------------|------------------------------|------|------|------|
| | | | | M | P | R | S |
| 100 Vdc - Radial Leaded - CK05/M39014/02 | | | | | | | |
| .047 uF | 10 | CK06BX473K | CKR06BX473K* | 1225 | 1265 | 1305 | 1345 |
| .047 uF | 20 | CK06BX473M | | | | | |
| .056 uF | 10 | CK06BX563K | CKR06BX563K* | 1226 | 1266 | 1306 | 1346 |
| .068 uF | 10 | CK06BX683K | CKR06BX683K* | 1227 | 1267 | 1307 | 1347 |
| .068 uF | 20 | CK06BX683M | | | | | |
| .082 uF | 10 | CK06BX823K | CKR06BX823K* | 1229 | 1269 | 1309 | 1349 |
| .10 uF | 10 | CK06BX104K | CKR06BX104K* | 1230 | 1270 | 1310 | 1350 |
| .10 uF | 20 | CK06BX104M | | | | | |
| 200 Vdc - Radial Leaded - CK06/M39014/02 | | | | | | | |
| 1200 pF | 10 | CK06BX122K | CKR06BX122K* | 1201 | 1241 | 1281 | 1321 |
| 1500 pF | 10 | CK06BX152K | CKR06BX152K* | 1202 | 1242 | 1282 | 1322 |
| 1500 pF | 20 | CK06BX152M | CKR06BX152M* | 1203 | 1243 | 1283 | 1323 |
| 1800 pF | 10 | CK06BX182K | CKR06BX182K* | 1204 | 1244 | 1284 | 1324 |
| 2200 pF | 10 | CK06BX222K | CKR06BX222K* | 1206 | 1246 | 1286 | 1326 |
| 2200 pF | 20 | CK06BX222M | CKR06BX222M* | 1207 | 1247 | 1287 | 1327 |
| 2700 pF | 10 | CK06BX272K | CKR06BX272K* | 1208 | 1248 | 1288 | 1328 |
| 3300 pF | 10 | CK06BX332K | CKR06BX332K* | 1209 | 1249 | 1289 | 1329 |
| 3300 pF | 20 | CK06BX332M | CKR06BX332M* | 1210 | 1250 | 1290 | 1330 |
| 3900 pF | 10 | CK06BX392K | CKR06BX392K* | 1211 | 1251 | 1291 | 1331 |
| 4700 pF | 10 | CK06BX472K | CKR06BX472K* | 1212 | 1252 | 1292 | 1332 |
| 4700 pF | 20 | CK06BX472M | CKR06BX472M* | 1213 | 1253 | 1293 | 1333 |
| 5600 pF | 10 | CK06BX562K | CKR06BX562K* | 1214 | 1254 | 1294 | 1334 |
| 6800 pF | 10 | CK06BX682K | CKR06BX682K* | 1215 | 1255 | 1295 | 1335 |
| 6800 pF | 20 | CK06BX682M | CKR06BX682M* | 1216 | 1256 | 1296 | 1336 |
| 8200 pF | 10 | CK06BX822K | CKR06BX822K* | 1217 | 1257 | 1297 | 1337 |
| .01 uF | 10 | CK06BX103K | CKR06BX103K* | 1218 | 1258 | 1298 | 1338 |
| .01 uF | 20 | CK06BX103M | CKR06BX103M* | 1219 | 1259 | 1299 | 1339 |

Add 'TR' to end of part number for Tape & Reel
 Leads will be trimmed to .625" length
 CK06 & CKR06 1,500 per reel
 (Available in full reels only)

*Insert proper letter symbol for Failure Rate Designator
 M = 1% / 1000 Hours, P = 0.1% / 1000 Hours
 R = 0.01% / 1000 Hours, S = 0.001% / 1000 Hours

Add 'V' at end of failure rate designator if stand-off design is required, (CKR only)

| Cap | Tol. % | MIL-C-11015/20 | MIL-C-39014/05 References | 39014/05 Failure Rate Levels | | | |
|---|--------|----------------|---------------------------|------------------------------|------|------|------|
| | | | | M | P | R | S |
| 50 Vdc - Axial Leaded - CK12/M39014/05 | | | | | | | |
| 5600 pF | 10 | CK12BX562K | CKR11BX562K* | 2651 | 2851 | 2051 | 2251 |
| 6800 pF | 10 | CK12BX682K | CKR11BX682K* | 2652 | 2852 | 2052 | 2252 |
| 6800 pF | 20 | CK12BX682M | CKR11BX682M* | 2653 | 2853 | 2053 | 2253 |
| 8200 pF | 10 | CK12BX822K | CKR11BX822K* | 2654 | 2854 | 2054 | 2254 |
| 0.01 uF | 10 | CK12BX103K | CKR11BX103K* | 2655 | 2855 | 2055 | 2255 |
| 0.01 uF | 20 | CK12BX103M | CKR11BX103M* | 2656 | 2856 | 2056 | 2256 |

| Cap | Tol. % | MIL-C-11015/20 | MIL-C-39014/05 References | 39014/05 Failure Rate Levels | | | |
|--|--------|----------------|---------------------------|------------------------------|------|------|------|
| | | | | M | P | R | S |
| 100 Vdc - Axial Leaded - CK12/M39014/05 | | | | | | | |
| 10 pF | 10 | CK12BX100K | CKR11BX100K* | 2601 | 2801 | 2001 | 2201 |
| 10 pF | 20 | CK12BX100M | CKR11BX100M* | 2602 | 2802 | 2002 | 2202 |
| 12 pF | 10 | CK12BX120K | CKR11BX120K* | 2603 | 2803 | 2003 | 2203 |
| 15 pF | 10 | CK12BX150K | CKR11BX150K* | 2604 | 2804 | 2004 | 2204 |
| 15 pF | 20 | CK12BX150M | CKR11BX150M* | 2605 | 2805 | 2005 | 2205 |
| 18 pF | 10 | CK12BX180K | CKR11BX180K* | 2606 | 2806 | 2006 | 2206 |

MIL-C-11015 & 39014 Multilayer Ceramic Capacitors

Ratings

| Cap | Tol. % | MIL-C-11015/20 | MIL-C-39014/05 References | 39014/05 Failure Rate Levels | | | |
|--|--------|----------------|---------------------------|------------------------------|------|------|------|
| | | | | M | P | R | S |
| 100 Vdc - Axial Leaded - CK12/M39014/05 | | | | | | | |
| 22 pF | 10 | CK12BX220K | CKR11BX220K* | 2607 | 2807 | 2007 | 2207 |
| 22 pF | 20 | CK12BX220M | CKR11BX220M* | 2608 | 2808 | 2008 | 2208 |
| 27 pF | 10 | CK12BX270K | CKR11BX270K* | 2609 | 2809 | 2009 | 2209 |
| 33 pF | 10 | CK12BX330K | CKR11BX330K* | 2610 | 2810 | 2010 | 2210 |
| 33 pF | 20 | CK12BX330M | CKR11BX330M* | 2611 | 2811 | 2011 | 2211 |
| 39 pF | 10 | CK12BX390K | CKR11BX390K* | 2612 | 2812 | 2012 | 2212 |
| 47 pF | 10 | CK12BX470K | CKR11BX470K* | 2613 | 2813 | 2013 | 2213 |
| 47 pF | 20 | CK12BX470M | CKR11BX470M* | 2614 | 2814 | 2014 | 2214 |
| 56 pF | 10 | CK12BX560K | CKR11BX560K* | 2615 | 2815 | 2015 | 2215 |
| 68 pF | 10 | CK12BX680K | CKR11BX680K* | 2616 | 2816 | 2016 | 2216 |
| 68 pF | 20 | CK12BX680M | CKR11BX680M* | 2617 | 2817 | 2017 | 2217 |
| 82 pF | 10 | CK12BX820K | CKR11BX820K* | 2618 | 2818 | 2018 | 2218 |
| 100 pF | 10 | CK12BX101K | CKR11BX101K* | 2619 | 2819 | 2019 | 2219 |
| 100 pF | 20 | CK12BX101M | CKR11BX101M* | 2620 | 2820 | 2020 | 2220 |
| 120 pF | 10 | CK12BX121K | CKR11BX121K* | 2621 | 2821 | 2021 | 2221 |
| 150 pF | 10 | CK12BX151K | CKR11BX151K* | 2622 | 2822 | 2022 | 2222 |
| 150 pF | 20 | CK12BX151M | CKR11BX151M* | 2623 | 2823 | 2023 | 2223 |
| 180 pF | 10 | CK12BX181K | CKR11BX181K* | 2624 | 2824 | 2024 | 2224 |
| 220 pF | 10 | CK12BX221K | CKR11BX221K* | 2625 | 2825 | 2025 | 2225 |
| 220 pF | 20 | CK12BX221M | CKR11BX221M* | 2626 | 2826 | 2026 | 2226 |
| 270 pF | 10 | CK12BX271K | CKR11BX271K* | 2627 | 2827 | 2027 | 2227 |
| 330 pF | 10 | CK12BX331K | CKR11BX331K* | 2628 | 2828 | 2028 | 2228 |

| Cap | Tol. % | MIL-C-11015/20 | MIL-C-39014/05 References | 39014/05 Failure Rate Levels | | | |
|--|--------|----------------|---------------------------|------------------------------|------|------|------|
| | | | | M | P | R | S |
| 100 Vdc - Axial Leaded - CK12/M39014/05 | | | | | | | |
| 330 pF | 20 | CK12BX331M | CKR11BX331M* | 2629 | 2829 | 2029 | 2229 |
| 390 pF | 10 | CK12BX391K | CKR11BX391K* | 2630 | 2830 | 2030 | 2230 |
| 470 pF | 10 | CK12BX471K | CKR11BX471K* | 2631 | 2831 | 2031 | 2231 |
| 470 pF | 20 | CK12BX471M | CKR11BX471M* | 2632 | 2832 | 2032 | 2232 |
| 560 pF | 10 | CK12BX561K | CKR11BX561K* | 2633 | 2833 | 2033 | 2233 |
| 680 pF | 10 | CK12BX681K | CKR11BX681K* | 2634 | 2834 | 2034 | 2234 |
| 680 pF | 20 | CK12BX681M | CKR11BX681M* | 2635 | 2835 | 2035 | 2235 |
| 820 pF | 10 | CK12BX821K | CKR11BX821K* | 2636 | 2836 | 2036 | 2236 |
| 1000 pF | 10 | CK12BX102K | CKR11BX102K* | 2637 | 2837 | 2037 | 2237 |
| 1000 pF | 20 | CK12BX102M | CKR11BX102M* | 2638 | 2838 | 2038 | 2238 |
| 1200 pF | 10 | CK12BX122K | CKR11BX122K* | 2639 | 2839 | 2039 | 2239 |
| 1500 pF | 10 | CK12BX152K | CKR11BX152K* | 2640 | 2840 | 2040 | 2240 |
| 1500 pF | 20 | CK12BX152M | CKR11BX152M* | 2641 | 2841 | 2041 | 2241 |
| 1800 pF | 10 | CK12BX182K | CKR11BX182K* | 2642 | 2842 | 2042 | 2242 |
| 2200 pF | 10 | CK12BX222K | CKR11BX222K* | 2643 | 2843 | 2043 | 2243 |
| 2200 pF | 20 | CK12BX222M | CKR11BX222M* | 2644 | 2844 | 2044 | 2244 |
| 2700 pF | 10 | CK12BX272K | CKR11BX272K* | 2645 | 2845 | 2045 | 2245 |
| 3300 pF | 10 | CK12BX332K | CKR11BX332K* | 2646 | 2846 | 2046 | 2246 |
| 3300 pF | 20 | CK12BX332M | CKR11BX332M* | 2647 | 2847 | 2047 | 2247 |
| 3900 pF | 10 | CK12BX392K | CKR11BX392K* | 2648 | 2848 | 2048 | 2248 |
| 4700 pF | 10 | CK12BX472K | CKR11BX472K* | 2649 | 2849 | 2049 | 2249 |
| 4700 pF | 20 | CK12BX472M | CKR11BX472M* | 2650 | 1850 | 2050 | 2250 |

*Insert proper letter symbol for Failure Rate Designator
M = 1% / 1000 Hours, P = 0.1% / 1000 Hours
R = 0.01% / 1000 Hours, S = 0.001% / 1000 Hours

Add 'TR' to end of part number for Tape & Reel
CK12 & CKR11 5,000 per reel
(Available in full reels only)

| Cap | Tol. % | MIL-C-11015/19 | MIL-C-39014/05 References | 39014/05 Failure Rate Levels | | | |
|---|--------|----------------|---------------------------|------------------------------|------|------|------|
| | | | | M | P | R | S |
| 50 Vdc - Axial Leaded - CK13/M39014/05 | | | | | | | |
| .012 uF | 10 | CK13BX123K | CKR12BX123K* | 2663 | 2863 | 2063 | 2263 |
| .015 uF | 10 | CK13BX153K | CKR12BX153K* | 2664 | 2864 | 2064 | 2264 |
| .015 uF | 20 | CK13BX153M | CKR12BX153M* | 2665 | 2865 | 2065 | 2265 |
| .018 uF | 10 | CK13BX183K | CKR12BX183K* | 2666 | 2866 | 2066 | 2266 |
| .022 uF | 10 | CK13BX223K | CKR12BX223K* | 2667 | 2867 | 2067 | 2267 |
| .022 uF | 20 | CK13BX223M | CKR12BX223M* | 2668 | 2868 | 2068 | 2268 |
| .027 uF | 10 | CK13BR273K | CKR12BX273K* | 2669 | 2869 | 2069 | 2269 |
| .033 uF | 10 | CK13BR333K | CKR12BX333K* | 2670 | 2870 | 2070 | 2270 |
| .033 uF | 20 | CK13BR333M | CKR12BX333M* | 2671 | 2871 | 2071 | 2271 |

| Cap | Tol. % | MIL-C-11015/19 | MIL-C-39014/05 References | 39014/05 Failure Rate Levels | | | |
|--|--------|----------------|---------------------------|------------------------------|------|------|------|
| | | | | M | P | R | S |
| 50 Vdc - Axial Leaded - CK13/M39014/05 | | | | | | | |
| .039 uF | 10 | CK13BR393K | CKR12BX393K* | 2672 | 2872 | 2072 | 2272 |
| .047 uF | 10 | CK13BR473K | CKR12BX473K* | 2673 | 2873 | 2073 | 2273 |
| .047 uF | 20 | CK13BR473M | CKR12BX473M* | 2674 | 2874 | 2074 | 2274 |
| 100 Vdc - Axial Leaded - CK13/M39014/05 | | | | | | | |
| 5600 pF | 10 | CK13BX562K | CKR12BX562K* | 2657 | 2857 | 2057 | 2257 |
| 6800 pF | 10 | CK13BX682K | CKR12BX682K* | 2658 | 2858 | 2058 | 2258 |
| 6800 pF | 20 | CK13BX682M | CKR12BX682M* | 2659 | 2859 | 2059 | 2259 |
| 8200 pF | 10 | CK13BX822K | CKR12BX822K* | 2660 | 2860 | 2060 | 2260 |
| .01 uF | 10 | CK13BX103K | CKR12BX103K* | 2661 | 2861 | 2061 | 2261 |
| .01 uF | 20 | CK13BX103M | CKR12BX103M* | 2662 | 2862 | 2062 | 2262 |

MIL-C-11015 & 39014 Multilayer Ceramic Capacitors

Ratings

| Cap | Tol. % | MIL-C-11015/19 | MIL-C-39014/05 References | 39014/05 Failure Rate Levels | | | |
|--|--------|----------------|---------------------------|------------------------------|------|------|------|
| | | | | M | P | R | S |
| 50 Vdc - Axial Leaded - CK14/M39014/05 | | | | | | | |
| .056 uF | 10 | | CKR14BX563K* | 2687 | 2887 | 2087 | 2287 |
| .068 uF | 10 | | CKR14BX683K* | 2688 | 2888 | 2088 | 2288 |
| .068 uF | 20 | | CKR14BX683M* | 2689 | 2889 | 2089 | 2289 |
| .082 uF | 10 | | CKR14BX823K* | 2690 | 2890 | 2090 | 2290 |
| .10 uF | 10 | | CKR14BX104K* | 2691 | 2891 | 2091 | 2291 |
| .10 uF | 20 | | CKR14BX104M* | 2692 | 2892 | 2092 | 2292 |
| .12 uF | 10 | CK14BR124K | CKR14BR124K* | 2699 | 2899 | 2099 | 2299 |
| .15 uF | 10 | CK14BR154K | CKR14BR154K* | 2700 | 2900 | 2100 | 2300 |
| .15 uF | 20 | CK14BR154M | CKR14BR154M* | 2701 | 2901 | 2101 | 2301 |
| .18 uF | 10 | CK14BR184K | CKR14BR184K* | 2702 | 2902 | 2102 | 2302 |
| .22 uF | 10 | CK14BR224K | CKR14BR224K* | 2703 | 2903 | 2103 | 2303 |
| .22 uF | 20 | CK14BR224M | CKR14BR224M* | 2704 | 2904 | 2104 | 2304 |
| .27 uF | 10 | CK14BR274K | CKR14BR274K* | 2705 | 2905 | 2105 | 2305 |
| 100 Vdc - Axial Leaded - CK14/M39014/05 | | | | | | | |
| .012 uF | 10 | CK14BX123K | CKR14BX123K* | 2675 | 2875 | 2075 | 2275 |
| .015 uF | 10 | CK14BX153K | CKR14BX153K* | 2676 | 2876 | 2076 | 2276 |

| Cap | Tol. % | MIL-C-11015/19 | MIL-C-39014/05 References | 39014/05 Failure Rate Levels | | | |
|--|--------|----------------|---------------------------|------------------------------|------|------|------|
| | | | | M | P | R | S |
| 100 Vdc - Axial Leaded - CK14/M39014/05 | | | | | | | |
| .015 uF | 20 | CK14BX153M | CKR14BX153M* | 2677 | 2877 | 2077 | 2277 |
| .018 uF | 10 | CK14BX183K | CKR14BX183K* | 2678 | 2878 | 2078 | 2278 |
| .022 uF | 10 | CK14BX223K | CKR14BX223K* | 2679 | 2879 | 2079 | 2279 |
| .022 uF | 20 | CK14BX223M | CKR14BX223M* | 2680 | 2880 | 2080 | 2280 |
| .027 uF | 10 | CK14BX273K | CKR14BX273K* | 2681 | 2881 | 2081 | 2281 |
| .033 uF | 10 | CK14BX333K | CKR14BX333K* | 2682 | 2882 | 2082 | 2282 |
| .033 uF | 20 | CK14BX333M | CKR14BX333M* | 2683 | 2883 | 2083 | 2283 |
| .039 uF | 10 | CK14BX393K | CKR14BX393K* | 2684 | 2884 | 2084 | 2284 |
| .047 uF | 10 | CK14BX473K | CKR14BX473K* | 2685 | 2885 | 2085 | 2285 |
| .047 uF | 20 | CK14BX473M | CKR14BX473M* | 2686 | 2886 | 2086 | 2286 |
| .056 uF | 10 | CK14BR563K | CKR14BR563K* | 2693 | 2893 | 2093 | 2293 |
| .068 uF | 10 | CK14BR683K | CKR14BR683K* | 2694 | 2894 | 2094 | 2294 |
| .068 uF | 20 | CK14BR683M | CKR14BR683M* | 2695 | 2895 | 2095 | 2295 |
| .082 uF | 10 | CK14BR823K | CKR14BR823K* | 2696 | 2896 | 2096 | 2296 |
| .1 uF | 10 | CK14BR104K | CKR14BR104K* | 2697 | 2897 | 2097 | 2297 |
| .1 uF | 20 | CK14BR104M | CKR14BR104M* | 2698 | 2898 | 2098 | 2298 |

| Cap | Tol. % | MIL-C-11015/19 | MIL-C-39014/05 References | 39014/05 Failure Rate Levels | | | |
|--|--------|----------------|---------------------------|------------------------------|------|------|------|
| | | | | M | P | R | S |
| 50 Vdc - Axial Leaded - CK15/M39014/05 | | | | | | | |
| .33 uF | 10 | CK15BR334K | CKR15BR334K* | 2719 | 2919 | 2119 | 2319 |
| .33 uF | 20 | CK15BR334M | CKR15BR334M* | 2720 | 2920 | 2120 | 2320 |
| .47 uF | 10 | CK15BR474K | CKR15BR474K* | 2721 | 2921 | 2121 | 2321 |
| .47 uF | 20 | CK15BR474M | CKR15BR474M* | 2722 | 2922 | 2122 | 2322 |
| .68 uF | 10 | | CKR15BR684K* | 2723 | 2923 | 2123 | 2323 |
| .68 uF | 20 | | CKR15BR684M* | 2724 | 2924 | 2124 | 2324 |
| 1.0 uF | 10 | CK15BR105K | CKR15BR105K* | 2725 | 2925 | 2125 | 2325 |
| 1.0 uF | 20 | CK15BR105M | CKR15BR105M* | 2726 | 2926 | 2126 | 2326 |
| 100 Vdc - Axial Leaded - CK15/M39014/05 | | | | | | | |
| .056 uF | 10 | | CKR15BX563K* | 2706 | 2906 | 2106 | 2306 |
| .068 uF | 10 | | CKR15BX683K* | 2707 | 2907 | 2107 | 2307 |

| Cap | Tol. % | MIL-C-11015/19 | MIL-C-39014/05 References | 39014/05 Failure Rate Levels | | | |
|--|--------|----------------|---------------------------|------------------------------|------|------|------|
| | | | | M | P | R | S |
| 100 Vdc - Axial Leaded - CK15/M39014/05 | | | | | | | |
| .068 uF | 20 | | CKR15BX683M* | 2708 | 2908 | 2108 | 2308 |
| .082 uF | 10 | | CKR15BX823K* | 2709 | 2909 | 2109 | 2309 |
| .10 uF | 10 | CK15BX104K | CKR15BX104K* | 2710 | 2910 | 2110 | 2310 |
| .10 uF | 20 | CK15BX104M | CKR15BX104M* | 2711 | 2911 | 2111 | 2311 |
| .12 uF | 10 | CK15BR124K | CKR15BR124K* | 2712 | 2912 | 2112 | 2312 |
| .15 uF | 10 | CK15BR154K | CKR15BR154K* | 2713 | 2913 | 2113 | 2313 |
| .15 uF | 20 | CK15BR154M | CKR15BR154M* | 2714 | 2914 | 2114 | 2314 |
| .18 uF | 10 | CK15BR184K | CKR15BR184K* | 2715 | 2915 | 2115 | 2315 |
| .22 uF | 10 | CK15BR224K | CKR15BR224K* | 2716 | 2916 | 2116 | 2316 |
| .22 uF | 20 | CK15BR224M | CKR15BR224M* | 2717 | 2917 | 2117 | 2317 |
| .27 uF | 10 | CK15BR274K | CKR15BR274K* | 2718 | 2918 | 2118 | 2318 |

| Cap | Tol. % | MIL-C-11015/19 | MIL-C-39014/05 References | 39014/05 Failure Rate Levels | | | |
|---|--------|----------------|---------------------------|------------------------------|------|------|------|
| | | | | M | P | R | S |
| 50 Vdc - Axial Leaded - CK16/M39014/05 | | | | | | | |
| 10 uF | 10 | CK16BR105K | CKR16BR105K* | 2731 | 2931 | 2131 | 2331 |
| 10 uF | 20 | CK16BR105M | CKR16BR105M* | 2732 | 2932 | 2132 | 2332 |
| 2.2 uF | 10 | CK16BR225K | CKR16BR225K* | 2733 | 2933 | 2133 | 2333 |
| 2.2 uF | 20 | CK16BR225M | CKR16BR225M* | 2734 | 2934 | 2134 | 2334 |
| 3.3 uF | 10 | CK16BR335K | CKR16BR335K* | 2735 | 2935 | 2135 | 2335 |
| 3.3 uF | 20 | CK16BR335M | CKR16BR335M* | 2736 | 2936 | 2136 | 2336 |

| Cap | Tol. % | MIL-C-11015/19 | MIL-C-39014/05 References | 39014/05 Failure Rate Levels | | | |
|--|--------|----------------|---------------------------|------------------------------|------|------|------|
| | | | | M | P | R | S |
| 100 Vdc - Axial Leaded - CK16/M39014/05 | | | | | | | |
| .47 uF | 10 | CK16BR474K | CKR16BR474K* | 2727 | 2927 | 2127 | 2327 |
| .47 uF | 20 | CK16BR474M | CKR16BR474M* | 2728 | 2928 | 2128 | 2328 |
| .68 uF | 10 | | CKR16BR684K* | 2729 | 2929 | 2129 | 2329 |
| .68 uF | 20 | | CKR16BR684M* | 2730 | 2930 | 2130 | 2330 |

Add 'TR' to end of part number for Tape & Reel
Leads will be trimmed to .625' length

- CK13 - 5,000 per reel
- CK14 - 3,000 per reel
- CK15 - 500 per reel
- CK16 - 300 per reel

(Available in full reels only)

*Insert proper letter symbol for Failure Rate Designator
M = 1% / 1000 Hours, P = 0.1% / 1000 Hours
R = 0.01% / 1000 Hours, S = 0.001% / 1000 Hours
Add 'V' at end of failure rate designator if stand-off design is required, (CKR only)

MIL-C-11015 & 39014 Multilayer Ceramic Capacitors

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