MIL-PRF-39014/Radial Leads

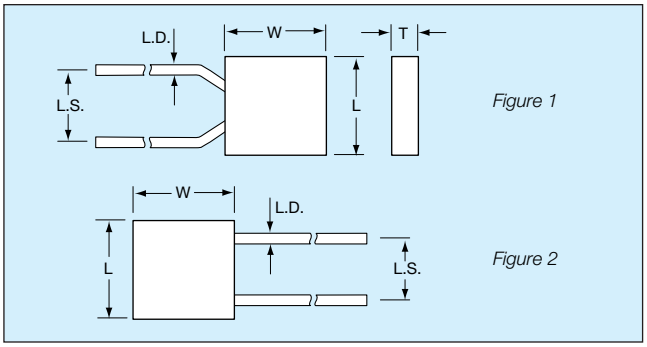


Figure 1

Figure 2

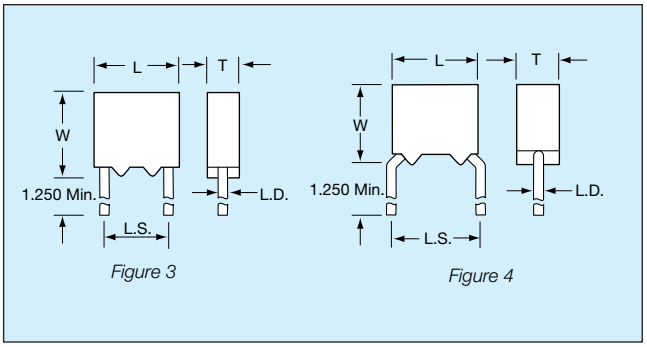


Figure 3

Figure 4

HOW TO ORDER

Military Type Designation: Styles CKR04, CKR05, CKR06, CKR08

Dash Number Option: MIL-PRF-39014/01 (Appropriate Dash Number)

CKR05 — **Style**
CK = General purpose, ceramic dielectric, fixed capacitors
R = Established Reliability Parts
05 = Remaining two numbers identify shape and dimension

BX — **Voltage-Temperature Limits**
First letter identifies temperature range.
B = -55ºC to +125ºC
Second letter identifies voltage-temperature coefficient.

Capacitance Change with Reference to 25°C		
Second Letter	No Voltage	Rated Voltage
X	+15, -15%	+15, -25%

104 — **Capacitance**
First two digits are the significant figures of capacitance. Third digit indicates the additional number of zeros. For example, order 100,000 pF as 104. (For values below 10pF use "R" in place of decimal point, e.g., 1R4 = 1.4pF.)

K — **Capacitance Tolerance**
K = ±10%
M = ±20%

S — **Military Failure Rate**
M = 1% per 1000 hours
P = 0.1% per 1000 hours
R = 0.01% per 1000 hours
S = 0.001% per 1000 hours
Note:
AVX reserves the right to substitute a lower failure rate part per MIL-PRF-39014. Substitutability for failure rate levels shall be as follows:

Failure Rate Level	Will Replace Failure Rate Level
S (STD) (X-ray)	R, P, M, L
R (STD) (No X-ray)	P, M, L
P	M,L
M	L

(V) — **Standoff Option**
To order standoff option, place "V" at the end of the part number.
Example: CKR05BX104KSV

Not RoHS Compliant

PACKAGING REQUIREMENTS

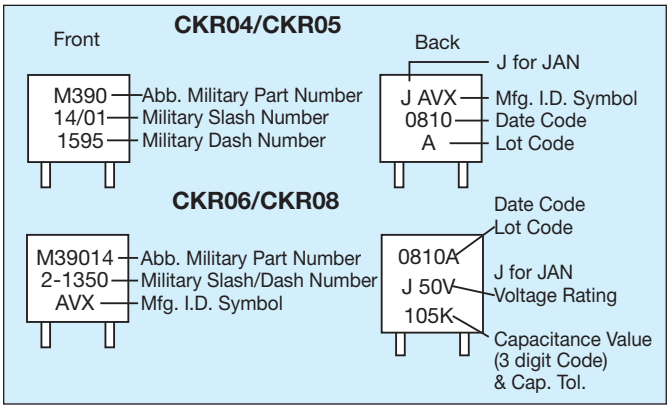
Packaging: 100 Pcs/bag; Radial Tape and Reel Packaging available upon request (2500 pcs./reel).

SIZE SPECIFICATIONS

Dimensions: Millimeters (Inches)

Per Mil Spec	Case Size				
MIL-PRF-39014	Length (L)	Width (W)	Thickness (T)	Lead Spacing (L.S.)	Lead Diameter (L.D.)
CKR04 *(Fig. 2)*	4.83±.25 (.190±.010)	4.83±.25 (.190±.010)	2.29±.25 (.090±.010)	2.54±.38 (.100±.015)	.64±.05 (.025±.002)
CKR05 *(Fig. 1, 4)*	4.83±.25 (.190±.010)	4.83±.25 (.190±.010)	2.29±.25 (.090±.010)	5.08±.38 (.200±.015)	.64±.05 (.025±.002)
CKR06 *(Fig. 2, 3)*	7.37±.25 (.290±.010)	7.37±.25 (.290±.010)	2.29±.25 (.090±.010)	5.08±.38 (.200±.015)	.64±.05 (.025±.002)
CKR08 *(Fig. 2)*	7.37±.25 (.290±.010)	7.37±.25 (.290±.010)	3.68±.38 (.145±.015)	5.08±.38 (.200±.015)	.64±.05 (.025±.002)

MARKING RADIAL LEAD



MILITARY DASH NUMBER IDENTIFICATION CKR04 TO MIL-PRF-39014/23

(Dash Number From Table)

Military Type Designation	Failure Rate Level (%/1,000 Hours)				Capacitance (pF)	Capacitance Tolerance ±Percent	WVDC
	1.0 (M)	0.1 (P)	0.01 (R)	0.001 (S)			
	CKR04 (BX)						
CKR04BX100K_	0001	0101	0201	0301	10	10	200
CKR04BX100M_	0002	0102	0202	0302	10	20	200
CKR04BX120K_	0003	0103	0203	0303	12	10	200
CKR04BX150K_	0004	0104	0204	0304	15	10	200
CKR04BX150M_	0005	0105	0205	0305	15	20	200
CKR04BX180K_	0006	0106	0206	0306	18	10	200
CKR04BX220K_	0007	0107	0207	0307	22	10	200
CKR04BX220M_	0008	0108	0208	0308	22	20	200
CKR04BX270K_	0009	0109	0209	0309	27	10	200
CKR04BX330K_	0010	0110	0210	0310	33	10	200
CKR04BX330M_	0011	0111	0211	0311	33	20	200
CKR04BX390K_	0012	0112	0212	0312	39	10	200
CKR04BX470K_	0013	0113	0213	0313	47	10	200
CKR04BX470M_	0014	0114	0214	0314	47	20	200
CKR04BX560K_	0015	0115	0215	0315	56	10	200
CKR04BX680K_	0016	0116	0216	0316	68	10	200
CKR04BX680M_	0017	0117	0217	0317	68	20	200
CKR04BX820K_	0018	0118	0218	0318	82	10	200
CKR04BX101K_	0019	0119	0219	0319	100	10	200
CKR04BX101M_	0020	0120	0220	0320	100	20	200
CKR04BX121K_	0021	0121	0221	0321	120	10	200
CKR04BX151K_	0022	0122	0222	0322	150	10	200
CKR04BX151M_	0023	0123	0223	0323	150	20	200
CKR04BX181K_	0024	0124	0224	0324	180	10	200
CKR04BX221K_	0025	0125	0225	0325	220	10	200
CKR04BX221M_	0026	0126	0226	0326	220	20	200
CKR04BX271K_	0027	0127	0227	0327	270	10	200
CKR04BX331K_	0028	0128	0228	0328	330	10	200
CKR04BX331M_	0029	0129	0229	0329	330	20	200
CKR04BX391K_	0030	0130	0230	0330	390	10	200
CKR04BX471K_	0031	0131	0231	0331	470	10	200
CKR04BX471M_	0032	0132	0232	0332	470	20	200
CKR04BX561K_	0033	0133	0233	0333	560	10	200
CKR04BX681K_	0034	0134	0234	0334	680	10	200
CKR04BX681M_	0035	0135	0235	0335	680	20	200
CKR04BX821K_	0036	0136	0236	0336	820	10	200
CKR04BX102K_	0037	0137	0237	0337	1,000	10	200
CKR04BX102M_	0038	0138	0238	0338	1,000	20	200
CKR04BX122K_	0039	0139	0239	0339	1,200	10	100
CKR04BX152K_	0040	0140	0240	0340	1,500	10	100
CKR04BX152M_	0041	0141	0241	0341	1,500	20	100
CKR04BX182K_	0042	0142	0242	0342	1,800	10	100
CKR04BX222K_	0043	0143	0243	0343	2,200	10	100
CKR04BX222M_	0044	0144	0244	0344	2,200	20	100
CKR04BX272K_	0045	0145	0245	0345	2,700	10	100
CKR04BX332K_	0046	0146	0246	0346	3,300	10	100
CKR04BX332M_	0047	0147	0247	0347	3,300	20	100
CKR04BX392K_	0048	0148	0248	0348	3,900	10	100
CKR04BX472K_	0049	0149	0249	0349	4,700	10	100
CKR04BX472M_	0050	0150	0250	0350	4,700	20	100
CKR04BX562K_	0051	0151	0251	0351	5,600	10	100
CKR04BX682K_	0052	0152	0252	0352	6,800	10	100
CKR04BX682M_	0053	0153	0253	0353	6,800	20	100
CKR04BX822K_	0054	0154	0254	0354	8,200	10	100
CKR04BX103K_	0055	0155	0255	0355	10,000	10	100
CKR04BX103M_	0056	0156	0256	0356	10,000	20	100
CKR04BX123K_	0057	0157	0257	0357	12,000	10	50
CKR04BX153K_	0058	0158	0258	0358	15,000	10	50
CKR04BX153M_	0059	0159	0259	0359	15,000	20	50
CKR04BX183K_	0060	0160	0260	0360	18,000	10	50
CKR04BX223K_	0061	0161	0261	0361	22,000	10	50
CKR04BX223M_	0062	0162	0262	0362	22,000	20	50
CKR04BX273K_	0063	0163	0263	0363	27,000	10	50
CKR04BX333K_	0064	0164	0264	0364	33,000	10	50
CKR04BX333M_	0065	0165	0265	0365	33,000	20	50
CKR04BX393K_	0066	0166	0266	0366	39,000	10	50
CKR04BX473K_	0067	0167	0267	0367	47,000	10	50
CKR04BX473M_	0068	0168	0268	0368	47,000	20	50
CKR04BX563K_	0069	0169	0269	0369	56,000	10	50
CKR04BX683K_	0070	0170	0270	0370	68,000	10	50
CKR04BX683M_	0071	0171	0271	0371	68,000	20	50
CKR04BX823K_	0072	0172	0272	0372	82,000	10	50
CKR04BX104K_	0073	0173	0273	0373	100,000	10	50
CKR04BX104M_	0074	0174	0274	0374	100,000	20	50

Add appropriate failure rate level letter (M, P, R or S)

MILITARY DASH NUMBER IDENTIFICATION CKR05 TO MIL-PRF-39014/01

(Dash Number From Table)

Military Type Designation	Failure Rate Level (%/1,000 Hours)				Capacitance (pF)	Capacitance Tolerance ±Percent	WVDC
	1.0 (M)	0.1 (P)	0.01 (R)	0.001 (S)			
	CKR05 (BX)						
CKR05BX100K_	1201	1241	1281	1321	10	10	200
CKR05BX100M_	1202	1242	1282	1322	10	20	200
CKR05BX120K_	1203	1243	1283	1323	12	10	200
CKR05BX150K_	1204	1244	1284	1324	15	10	200
CKR05BX150M_	1205	1245	1285	1325	15	20	200
CKR05BX180K_	1206	1246	1286	1326	18	10	200
CKR05BX220K_	1207	1247	1287	1327	22	10	200
CKR05BX220M_	1208	1248	1288	1328	22	20	200
CKR05BX270K_	1209	1249	1289	1329	27	10	200
CKR05BX330K_	1210	1250	1290	1330	33	10	200
CKR05BX330M_	1211	1251	1291	1331	33	20	200
CKR05BX390K_	1212	1252	1292	1332	39	10	200
CKR05BX470K_	1213	1253	1293	1333	47	10	200
CKR05BX470M_	1214	1254	1294	1334	47	20	200
CKR05BX560K_	1215	1255	1295	1335	56	10	200
CKR05BX680K_	1216	1256	1296	1336	68	10	200
CKR05BX680M_	1217	1257	1297	1337	68	20	200
CKR05BX820K_	1218	1258	1298	1338	82	10	200
CKR05BX101K_	1219	1259	1299	1339	100	10	200
CKR05BX101M_	1220	1260	1300	1340	100	20	200
CKR05BX121K_	1221	1261	1301	1341	120	10	200
CKR05BX151K_	1222	1262	1302	1342	150	10	200
CKR05BX151M_	1223	1263	1303	1343	150	20	200
CKR05BX181K_	1224	1264	1304	1344	180	10	200
CKR05BX221K_	1225	1265	1305	1345	220	10	200
CKR05BX221M_	1226	1266	1306	1346	220	20	200
CKR05BX271K_	1227	1267	1307	1347	270	10	200
CKR05BX331K_	1228	1268	1308	1348	330	10	200
CKR05BX331M_	1229	1269	1309	1349	330	20	200
CKR05BX391K_	1230	1270	1310	1350	390	10	200
CKR05BX471K_	1231	1271	1311	1351	470	10	200
CKR05BX471M_	1232	1272	1312	1352	470	20	200
CKR05BX561K_	1233	1273	1313	1353	560	10	200
CKR05BX681K_	1234	1274	1314	1354	680	10	200
CKR05BX681M_	1235	1275	1315	1355	680	20	200
CKR05BX821K_	1236	1276	1316	1356	820	10	200
CKR05BX102K_	1237	1277	1317	1357	1,000	10	200
CKR05BX102M_	1238	1278	1318	1358	1,000	20	200
CKR05BX122K_	1239	1279	1319	1359	1,200	10	100
CKR05BX152K_	1240	1280	1320	1360	1,500	10	100
CKR05BX152M_	1441	1481	1521	1561	1,500	20	100
CKR05BX182K_	1442	1482	1522	1562	1,800	10	100
CKR05BX222K_	1443	1483	1523	1563	2,200	10	100
CKR05BX222M_	1444	1484	1524	1564	2,200	20	100
CKR05BX272K_	1445	1485	1525	1565	2,700	10	100
CKR05BX332K_	1446	1486	1526	1566	3,300	10	100
CKR05BX332M_	1447	1487	1527	1567	3,300	20	100
CKR05BX392K_	1448	1488	1528	1568	3,900	10	100
CKR05BX472K_	1449	1489	1529	1569	4,700	10	100
CKR05BX472M_	1450	1490	1530	1570	4,700	20	100
CKR05BX562K_	1451	1491	1531	1571	5,600	10	100
CKR05BX682K_	1452	1492	1532	1572	6,800	10	100
CKR05BX682M_	1453	1493	1533	1573	6,800	20	100
CKR05BX822K_	1454	1494	1534	1574	8,200	10	100
CKR05BX103K_	1455	1495	1535	1575	10,000	10	100
CKR05BX103M_	1456	1496	1536	1576	10,000	20	100
CKR05BX123K_	1457	1497	1537	1577	12,000	10	50
CKR05BX153K_	1458	1498	1538	1578	15,000	10	50
CKR05BX153M_	1459	1499	1539	1579	15,000	20	50
CKR05BX183K_	1460	1500	1540	1580	18,000	10	50
CKR05BX223K_	1461	1501	1541	1581	22,000	10	50
CKR05BX223M_	1462	1502	1542	1582	22,000	20	50
CKR05BX273K_	1463	1503	1543	1583	27,000	10	50
CKR05BX333K_	1464	1504	1544	1584	33,000	10	50
CKR05BX333M_	1465	1505	1545	1585	33,000	20	50
CKR05BX393K_	1466	1506	1546	1586	39,000	10	50
CKR05BX473K_	1467	1507	1547	1587	47,000	10	50
CKR05BX473M_	1468	1508	1548	1588	47,000	20	50
CKR05BX563K_	1469	1509	1549	1589	56,000	10	50
CKR05BX683K_	1470	1510	1550	1590	68,000	10	50
CKR05BX683M_	1471	1511	1551	1591	68,000	20	50
CKR05BX823K_	1472	1512	1552	1592	82,000	10	50
CKR05BX104K_	1473	1513	1553	1593	100,000	10	50
CKR05BX104M_	1474	1514	1554	1594	100,000	20	50

Add appropriate failure rate level letter (M, P, R or S)

MILITARY DASH NUMBER IDENTIFICATION CKR06 TO MIL-PRF-39014/02

(Dash Number From Table)

Military Type Designation	Failure Rate Level (%/1,000 Hours)				Capacitance (pF)	Capacitance Tolerance ±Percent	WVDC
	1.0 (M)	0.1 (P)	0.01 (R)	0.001 (S)			
	CKR06 (BX)						
CKR06BX122K_	1201	1241	1281	1321	1200	10	200
CKR06BX152K_	1202	1242	1282	1322	1500	10	200
CKR06BX152M_	1203	1243	1283	1323	1500	20	200
CKR06BX182K_	1204	1244	1284	1324	1800	10	200
CKR06BX222K_	1206	1246	1286	1326	2200	10	200
CKR06BX222M_	1207	1247	1287	1327	2200	20	200
CKR06BX272K_	1208	1248	1288	1328	2700	10	200
CKR06BX332K_	1209	1249	1289	1329	3300	10	200
CKR06BX332M_	1210	1250	1290	1330	3300	20	200
CKR06BX392K_	1211	1251	1291	1331	3900	10	200
CKR06BX472K_	1212	1252	1292	1332	4700	10	200
CKR06BX472M_	1213	1253	1293	1333	4700	20	200
CKR06BX562K_	1214	1254	1294	1334	5600	10	200
CKR06BX682K_	1215	1255	1295	1335	6800	10	200
CKR06BX682M_	1216	1256	1296	1336	6800	20	200
CKR06BX822K_	1217	1257	1297	1337	8200	10	200
CKR06BX103K_	1218	1258	1298	1338	10,000	10	200
CKR06BX103M_	1219	1259	1299	1339	10,000	20	200
CKR06BX123K_	1231	1271	1311	1351	12,000	10	100
CKR06BX153K_	1220	1260	1300	1340	15,000	10	100
CKR06BX183K_	1221	1261	1301	1341	18,000	10	100
CKR06BX223K_	1222	1262	1302	1342	22,000	10	100
CKR06BX273K_	1232	1272	1312	1352	27,000	10	100
CKR06BX333K_	1223	1263	1303	1343	33,000	10	100
CKR06BX393K_	1224	1264	1304	1344	39,000	10	100
CKR06BX473K_	1225	1265	1305	1345	47,000	10	100
CKR06BX563K_	1226	1266	1306	1346	56,000	10	100
CKR06BX683K_	1227	1267	1307	1347	68,000	10	100
CKR06BX823K_	1229	1269	1309	1349	82,000	10	100
CKR06BX104K_	1230	1270	1310	1350	100,000	10	100
CKR06BX124K_	1233	1273	1313	1353	120,000	10	50
CKR06BX154K_	1234	1274	1314	1354	150,000	10	50
CKR06BX184K_	1235	1275	1315	1355	180,000	10	50
CKR06BX224K_	1236	1276	1316	1356	220,000	10	50
CKR06BX274K_	1237	1277	1317	1357	270,000	10	50
CKR06BX334K_	1238	1278	1318	1358	330,000	10	50
CKR06BX394K_	1239	1279	1319	1359	390,000	10	50
CKR06BX474K_	1240	1280	1320	1360	470,000	10	50
CKR06BX564K_	1404	1408	1412	1416	560,000	10	50
CKR06BX684K_	1405	1409	1413	1417	680,000	10	50
CKR06BX824K_	1406	1410	1414	1418	820,000	10	50
CKR06BX105K_	1407	1411	1415	1419	1,000,000	10	50

Add appropriate failure rate level letter (M, P, R or S)

CKR08 to MIL-PRF-39014/20 (Dash Number From Table)

Military Type Designation	Failure Rate Level (%/1,000 Hours)	Capacitance (pF)	Capacitance Tolerance ±Percent	WVDC
	1.0 (M)			
	CKR08 (BX)			
CKR08BX125K_	**0104**	**1,200,000**	**10**	**50**
CKR08BX155K_	**0105**	**1,500,000**	**10**	**50**
CKR08BX205K_	**0106**	**2,000,000**	**10**	**50**

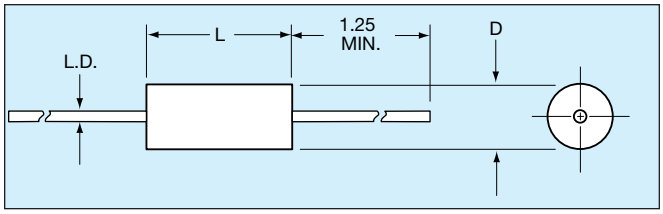
Add appropriate failure rate level letter (M)

CROSS REFERENCE CHART - AVX MILITARY FOR MOLDED RADIAL LEAD

		Per Mil-Spec			Case Size				
Figure	AVX Style	MIL-C-11015	MIL-PRF-39014	MIL-PRF-20	Length(L)	Width (W)	Thickness (T)	Lead Spacing (LS)	Lead Diameter (LD)
1	MR05	CK05	CKR05	CCR05/CC05	4.83±.25 (.190±.010)	4.83±.25 (.190±.010)	2.29±.25 (.090±.010)	5.08±.38 (.200±.015)	.64±.05 (.025±.002)
2	MR04	–	CKR04	CCR09/CC09	4.83±.25 (.190±.010)	4.83±.25 (.190±.010)	2.29±.25 (.090±.010)	2.54±.38 (.100±.015)	.64±.05 (.025±.002)
2	MR06	CK06	CKR06	CCR06/CC06	7.37±.25 (.290±.010)	7.37±.25 (.290±.010)	2.29±.25 (.090±.010)	5.08±.38 (.200±.015)	.64±.05 (.025±.002)
2	MR68	–	CKR08	–	7.37±.25 (.290±.010)	7.37±.25 (.290±.010)	3.68±.38 (.145±.015)	5.08±.38 (.200±.015)	.64±.05 (.025±.002)
2	MR07	–	–	CCR07/CC07	12.19±.51 (.480±.020)	12.19±.51 (.480±.020)	3.56±.25 (.140±.010)	10.16±.51 (.400±.020)	.64±.05 (.025±.002)
2	MR08	–	–	CCR08/CC08	12.19±.51 (.480±.020)	12.19±.51 (.480±.020)	6.1±.25 (.240±.010)	10.16±.51 (.400±.020)	.64±.05 (.025±.002)

Dimensions: Millimeters (Inches)

MIL-PRF-39014/Axial Leads



HOW TO ORDER

Military Type Designation: Styles CKR11, CKR12, CKR14, CKR15, CKR16

Dash Number Option: MIL-PRF-39014/05 (Add Appropriate Dash Number)

CKR11

Style
CK = General purpose, ceramic dielectric, fixed capacitors
R = Established Reliability parts
11 = Remaining two numbers identify shape and dimension

BX

Voltage-Temperature Limits
First letter identifies temperature range.
B = -55ºC to +125ºC
Second letter identifies voltage-temperature coefficient.

Capacitance Change with Reference to 25°C		
Second Letter	No Voltage	Rated Voltage
R	+15, -15%	+15, -40%
X	+15, -15%	+15, -25%

103

Capacitance
First two digits are the significant figures of capacitance. Third digit indicates the additional number of zeros. For example, order 10,000 pF as 103.

K

Capacitance Tolerance
K = ±10%
M = ±20%

S

Military Failure Rate
M = 1% per 1000 hours
P = 0.1% per 1000 hours
R = 0.01% per 1000 hours
S = 0.001% per 1000 hours
Note:
AVX reserves the right to substitute a lower failure rate part per MIL-PRF-39014/5E. Substitutability for failure rate levels shall be as follows:

Failure Rate Level	Will Replace Failure Rate Level
S (STD) (X-ray)	R, P, M, L
R (STD) (No X-ray)	P, M, L
P	M,L
M	L

Not RoHS Compliant

PACKAGING REQUIREMENTS

Packaging: Bulk

CKR11, 12, & 14	100 pcs per bag
CKR15 & 16	50 pcs per bag

Tape & Reel

CKR11, 12	5000 pcs per reel
CKR14	3000 pcs per reel
CKR15	950 pcs per reel
CKR16	650 pcs per reel

SIZE SPECIFICATIONS

Dimensions: Millimeters (Inches)

Per Mil Spec	Case Size		
MIL-PRF-39014	Length (L)	Diameter (D)	Lead Diameter (L.D.)
CKR11	4.07±.25 (.160±.010)	2.29±.25 (.090±.010)	.48±.05 (.019±.002)
CKR12	6.35±.25 (.250±.010)	2.29±.25 (.090±.010)	.48±.05 (.019±.002)
CKR14	9.91±.25 (.390±.010)	3.56±.25 (.140±.010)	.63±.025 (.025±.002)
CKR15	12.7±.51 (.500±.020)	6.35±.38 (.250±.015)	.63±.05 (.025±.002)
CKR16	17.53±.51 (.690±.020)	8.89±.51 (.350±.020)	.63±.05 (.025±.002)

MILITARY DASH NUMBER IDENTIFICATION CKR11 TO MIL-PRF-39014/05

(Dash Number From Table)

Military Type Designation	Failure Rate Level (%/1,000 Hours)				Capacitance (pF)	Capacitance Tolerance ±Percent	WVDC
	1.0 (M)	0.1 (P)	0.01 (R)	0.001 (S)			
	CKR11 (BX)						
CKR11BX100K_	2601	2801	2001	2201	10	10	100
CKR11BX100M_	2602	2802	2002	2202	10	20	100
CKR11BX120K_	2603	2803	2003	2203	12	10	100
CKR11BX150K_	2604	2804	2004	2204	15	10	100
CKR11BX150M_	2605	2805	2005	2205	15	20	100
CKR11BX180K_	2606	2806	2006	2206	18	10	100
CKR11BX220K_	2607	2807	2007	2207	22	10	100
CKR11BX220M_	2608	2808	2008	2208	22	20	100
CKR11BX270K_	2609	2809	2009	2209	27	10	100
CKR11BX330K_	2610	2810	2010	2210	33	10	100
CKR11BX330M_	2611	2811	2011	2211	33	20	100
CKR11BX390K_	2612	2812	2012	2212	39	10	100
CKR11BX470K_	2613	2813	2013	2213	47	10	100
CKR11BX470M_	2614	2814	2014	2214	47	20	100
CKR11BX560K_	2615	2815	2015	2215	56	10	100
CKR11BX680K_	2616	2816	2016	2216	68	10	100
CKR11BX680M_	2617	2817	2017	2217	68	20	100
CKR11BX820K_	2618	2818	2018	2218	82	10	100
CKR11BX101K_	2619	2819	2019	2219	100	10	100
CKR11BX101M_	2620	2820	2020	2220	100	20	100
CKR11BX121K_	2621	2821	2021	2221	120	10	100
CKR11BX151K_	2622	2822	2022	2222	150	10	100
CKR11BX151M_	2623	2823	2023	2223	150	20	100
CKR11BX181K_	2624	2824	2024	2224	180	10	100
CKR11BX221K_	2625	2825	2025	2225	220	10	100
CKR11BX221M_	2626	2826	2026	2226	220	20	100
CKR11BX271K_	2627	2827	2027	2227	270	10	100
CKR11BX331K_	2628	2828	2028	2228	330	10	100
CKR11BX331M_	2629	2829	2029	2229	330	20	100
CKR11BX391K_	2630	2830	2030	2230	390	10	100
CKR11BX471K_	2631	2831	2031	2231	470	10	100
CKR11BX471M_	2632	2832	2032	2232	470	20	100
CKR11BX561K_	2633	2833	2033	2233	560	10	100
CKR11BX681K_	2634	2834	2034	2234	680	10	100
CKR11BX681M_	2635	2835	2035	2235	680	20	100
CKR11BX821K_	2636	2836	2036	2236	820	10	100
CKR11BX102K_	2637	2837	2037	2237	1000	10	100
CKR11BX102M_	2638	2838	2038	2238	1000	20	100
CKR11BX122K_	2639	2839	2039	2239	1200	10	100
CKR11BX152K_	2640	2840	2040	2240	1500	10	100
CKR11BX152M_	2641	2841	2041	2241	1500	20	100
CKR11BX182K_	2642	2842	2042	2242	1800	10	100
CKR11BX222K_	2643	2843	2043	2243	2200	10	100
CKR11BX222M_	2644	2844	2044	2244	2200	20	100
CKR11BX272K_	2645	2845	2045	2245	2700	10	100
CKR11BX332K_	2646	2846	2046	2246	3300	10	100
CKR11BX332M_	2647	2847	2047	2247	3300	20	100
CKR11BX392K_	2648	2848	2048	2248	3900	10	100
CKR11BX472K_	2649	2849	2049	2249	4700	10	100
CKR11BX472M_	2650	2850	2050	2250	4700	20	100
CKR11BX562K_	2651	2851	2051	2251	5600	10	50
CKR11BX682K_	2652	2852	2052	2252	6800	10	50
CKR11BX682M_	2653	2853	2053	2253	6800	20	50
CKR11BX822K_	2654	2854	2054	2254	8200	10	50
CKR11BX103K_	2655	2855	2055	2255	10,000	10	50
CKR11BX103M_	2656	2856	2056	2256	10,000	20	50

Add appropriate failure rate level letter (M, P, R or S)

MILITARY DASH NUMBER IDENTIFICATION CKR12/14/15 TO MIL-PRF-39014/05

(Dash Number From Table)

Military Type Designation	Failure Rate Level (%/1,000 Hours)				Capacitance (pF)	Capacitance Tolerance ±Percent	WVDC
	1.0 (M)	0.1 (P)	0.01 (R)	0.001 (S)			
	CKR12 (BX)						
CKR12BX562K_	2657	2857	2057	2257	5600	10	100
CKR12BX682K_	2658	2858	2058	2258	6800	10	100
CKR12BX682M_	2659	2859	2059	2259	6800	20	100
CKR12BX822K_	2660	2860	2060	2260	8200	10	100
CKR12BX103K_	2661	2861	2061	2261	10,000	10	100
CKR12BX103M_	2662	2862	2062	2262	10,000	20	100
CKR12BX123K_	2663	2863	2063	2263	12,000	10	50
CKR12BX153K_	2664	2864	2064	2264	15,000	10	50
CKR12BX153M_	2665	2865	2065	2265	15,000	20	50
CKR12BX183K_	2666	2866	2066	2266	18,000	10	50
CKR12BX223K_	2667	2867	2067	2267	22,000	10	50
CKR12BX223M_	2668	2868	2068	2268	22,000	20	50
CKR12BX273K_	2669	2869	2069	2269	27,000	10	50
CKR12BX333K_	2670	2870	2070	2270	33,000	10	50
CKR12BX333M_	2671	2871	2071	2271	33,000	20	50
CKR12BX393K_	2672	2872	2072	2272	39,000	10	50
CKR12BX473K_	2673	2873	2073	2273	47,000	10	50
CKR12BX473M_	2674	2874	2074	2274	47,000	20	50
	CKR14 (BX)						
CKR14BX123K_	2675	2875	2075	2275	12,000	10	100
CKR14BX153K_	2676	2876	2076	2276	15,000	10	100
CKR14BX153M_	2677	2877	2077	2277	15,000	20	100
CKR14BX183K_	2678	2878	2078	2278	18,000	10	100
CKR14BX223K_	2679	2879	2079	2279	22,000	10	100
CKR14BX223M_	2680	2880	2080	2280	22,000	20	100
CKR14BX273K_	2681	2881	2081	2281	27,000	10	100
CKR14BX333K_	2682	2882	2082	2282	33,000	10	100
CKR14BX333M_	2683	2883	2083	2283	33,000	20	100
CKR14BX393K_	2684	2884	2084	2284	39,000	10	100
CKR14BX473K_	2685	2885	2085	2285	47,000	10	100
CKR14BX473M_	2686	2886	2086	2286	47,000	20	100
CKR14BX563K_	2687	2887	2087	2287	56,000	10	50
CKR14BX683K_	2688	2888	2088	2288	68,000	10	50
CKR14BX683M_	2689	2889	2089	2289	68,000	20	50
CKR14BX823K_	2690	2890	2090	2290	82,000	10	50
CKR14BX104K_	2691	2891	2091	2291	100,000	10	50
CKR14BX104M_	2692	2892	2092	2292	100,000	20	50
	CKR14 (BR)						
CKR14BR563K_	2693	2893	2093	2293	56,000	10	100
CKR14BR683K_	2694	2894	2094	2294	68,000	10	100
CKR14BR683M_	2695	2895	2095	2295	68,000	20	100
CKR14BR823K_	2696	2896	2096	2296	82,000	10	100
CKR14BR104K_	2697	2897	2097	2297	100,000	10	100
CKR14BR104M_	2698	2898	2098	2298	100,000	20	100
CKR14BR124K_	2699	2899	2099	2299	120,000	10	50
CKR14BR154K_	2700	2900	2100	2300	150,000	10	50
CKR14BR154M_	2701	2901	2101	2301	150,000	20	50
CKR14BR184K_	2702	2902	2102	2302	180,000	10	50
CKR14BR224K_	2703	2903	2103	2303	220,000	10	50
CKR14BR224M_	2704	2904	2104	2304	220,000	20	50
CKR14BR274K_	2705	2905	2105	2305	270,000	10	50
	CKR15 (BX)						
CKR15BX563K_	2706	2906	2106	2306	56,000	10	100
CKR15BX683K_	2707	2907	2107	2307	68,000	10	100
CKR15BX683M_	2708	2908	2108	2308	68,000	20	100
CKR15BX823K_	2709	2909	2109	2309	82,000	10	100
CKR15BX104K_	2710	2910	2110	2310	100,000	10	100
CKR15BX104M_	2711	2911	2111	2311	100,000	20	100

Add appropriate failure rate level letter (M, P, R or S)

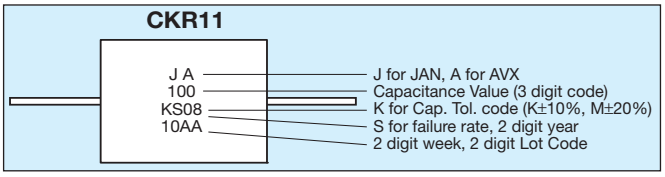
MILITARY DASH NUMBER IDENTIFICATION CKR15/16 TO MIL-PRF-39014/05

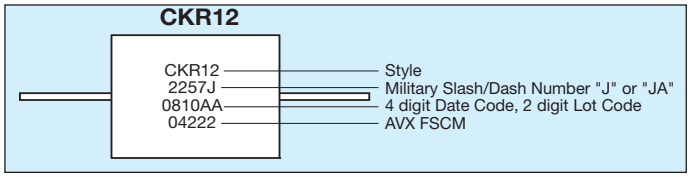
(Dash Number From Table)

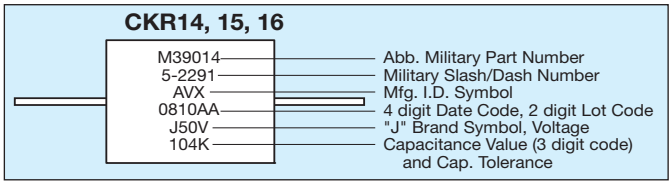
Military Type Designation	Failure Rate Level (%/1,000 Hours)				Capacitance (pF)	Capacitance Tolerance ±Percent	WVDC
	1.0 (M)	0.1 (P)	0.01 (R)	0.001 (S)			
	CKR15 (BR)						
CKR15BR124K_	2712	2912	2112	2312	120,000	10	100
CKR15BR154K_	2713	2913	2113	2313	150,000	10	100
CKR15BR154M_	2714	2914	2114	2314	150,000	20	100
CKR15BR184K_	2715	2915	2115	2315	180,000	10	100
CKR15BR224K_	2716	2916	2116	2316	220,000	10	100
CKR15BR224M_	2717	2917	2117	2317	220,000	20	100
CKR15BR274K_	2718	2918	2118	2318	270,000	10	100
CKR15BR334K_	2719	2919	2119	2319	330,000	10	100
CKR15BR334M_	2720	2920	2120	2320	330,000	20	100
CKR15BR474K_	2721	2921	2121	2321	470,000	10	50
CKR15BR474M_	2722	2922	2122	2322	470,000	20	50
CKR15BR684K_	2723	2923	2123	2323	680,000	10	50
CKR15BR684M_	2724	2924	2124	2324	680,000	20	50
CKR15BR105K_	2725	2925	2125	2325	1,000,000	10	50
CKR15BR105M_	2726	2926	2126	2326	1,000,000	20	50
	CKR16 (BR)						
CKR16BR474K_	2727	2927	2127	2327	470,000	10	100
CKR16BR474M_	2728	2928	2128	2328	470,000	20	100
CKR16BR684K_	2729	2929	2129	2329	680,000	10	100
CKR16BR684M_	2730	2930	2130	2330	680,000	20	100
CKR16BR105K_	2731	2931	2131	2331	1,000,000	10	100
CKR16BR105M_	2732	2932	2132	2332	1,000,000	20	100
CKR16BR225K_	2733	2933	2133	2333	2,200,000	10	50
CKR16BR225M_	2734	2934	2134	2334	2,200,000	20	50
CKR16BR335K_	2735	2935	2135	2335	3,300,000	10	50
CKR16BR335M_	2736	2936	2136	2336	3,300,000	20	50

Add appropriate failure rate level letter (M, P, R or S)

MARKING





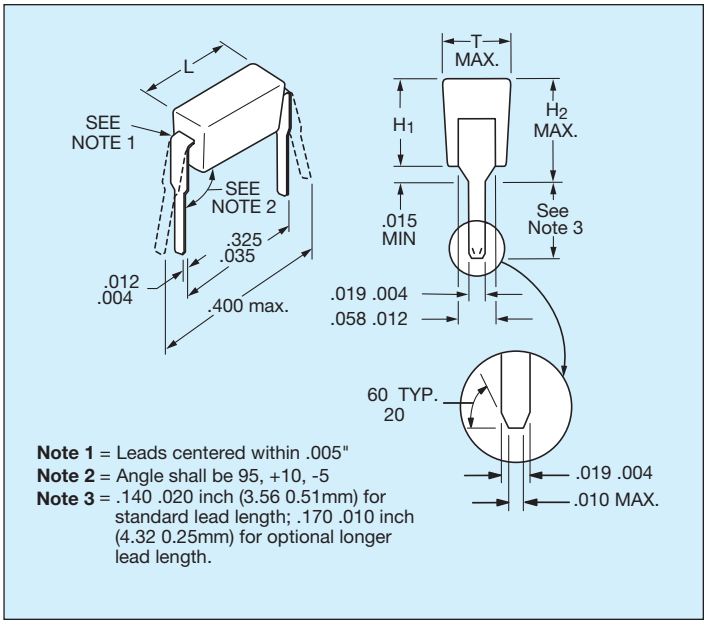


CROSS REFERENCE CHART - AVX MILITARY FOR MOLDED AXIAL LEAD

	Per Mil-Spec			Case Size		
AVX Style	MIL-C-11015	MIL-PRF-39014	MIL-PRF-20	Length (L)	Diameter (D)	Lead Diameter (L.D.)
MA10	CK12	CKR11	CCR75/CC75	4.07 ±.25 (.160±.010)	2.29±.25 (.090±.010)	.48±.05 (.019±.002)
MA20	CK13	CKR12	CCR76/CC76	6.35 ±.25 (.250 ±.010)	2.29±.25 (.090±.010)	.48±.05 (.019±.002)
MA30	—	—	—	6.10 ±.25 (.240±.010)	3.30±.25 (.130±.010)	.48±.05 (.019±.002)
MA40	CK14	CKR14	CCR77/CC77	9.91±.25 (.390±.010)	3.56±.25) (.140±.010)	.63±.05 (.025±.002)
MA50	CK15	CKR15	CCR78/CC78	12.7±.51 (.500±.020)	6.35±.38 (.250±.015)	.63±.05 (.025±.002)
MA60	CK16	CKR16	CCR79/CC79	17.53±.51 (.690±.020)	8.89±.51 (.350±.015)	.63±.05 (.025±.002)

Dimensions: Millimeters (Inches)

MIL-PRF-39014/2Pin DIP



Note 1 = Leads centered within .005"
Note 2 = Angle shall be 95, +10, -5
Note 3 = .140 .020 inch (3.56 0.51mm) for standard lead length; .170 .010 inch (4.32 0.25mm) for optional longer lead length.

HOW TO ORDER

Military Type Designation: Styles CKR22, CKR23, CKR24

Dash Number Option: MIL-PRF-39014/22 (Add Appropriate Dash Number)

CKR22

Style
CK = General purpose, ceramic dielectric, fixed capacitors
R = Established Reliability parts
22 = Remaining two numbers identify shape and dimension

BX

Voltage-Temperature Limits
First letter identifies temperature range.
B = -55ºC to +125ºC
C = -55ºC to +125ºC
Second letter identifies voltage-temperature coefficient.

Capacitance Change with Reference to 25°C		
Second Letter	No Voltage	Rated Voltage
G	+30, -30ppm	+30, -30ppm
H	+60, -60ppm	+60, -60ppm
R	+15, -15%	+15, -40%
X	+15, -15%	+15, -25%

104

Capacitance
First two digits are the significant figures of capacitance. Third digit indicates the additional number of zeros. For example, order 100,000 pF as 104. (For values below 10pF use "R" in place of decimal point, e.g., 1R5 = 1.5pF.)

K

Capacitance Tolerance
D = ±.5pF
F = ±1%
J = ±5%
K = ±10%
M = ±20%

R

Military Failure Rate
M = 1% per 1000 hours
P = 0.1% per 1000 hours
R = 0.01% per 1000 hours
S = 0.001% per 1000 hours
Note:
AVX reserves the right to substitute a lower failure rate part per MIL-PRF-39014. Substitutability for failure rate levels shall be as follows:

Failure Rate Level	Will Replace Failure Rate Level
S (STD) (X-ray)	R, P, M, L
R (STD) (No X-ray)	P, M, L
P	M,L
M	L

Not RoHS Compliant

PACKAGING REQUIREMENTS

Packaging: MD01/MD02: 200 pcs/slide pack. See page 36.
MD03: 200 pcs per vial.
200 pcs per slide pack upon request.

SIZE SPECIFICATIONS

Dimensions: Millimeters (Inches)

MIL-PRF-39014	Length (L)	Height (H_1)	Height (H_2)	Thickness
CKR22	6.60 (.260 ±.020)	3.25 (.128 ±.007)	4.45 max. (.175)	2.34 (.092 ±.006)
CKR23	6.60 (.260 ±.020)	3.94 (.155 ±.007)	4.95 max. (.195)	2.34 (.092 ±.006)
CKR24	6.60 (.260 ±.020)	7.19 (.283 ±.007)	8.13 max. (.320)	2.34 (.092 ±.006)

MILITARY DASH NUMBER IDENTIFICATION CKR22 TO MIL-PRF-39014/22

(Dash Number From Table)

Military Type Designation	Failure Rate Level (%/1,000 Hours)								Capacitance (pF)	Capacitance Tolerance	WVDC
	Standard Lead Length				Optional Longer Lead Length						
	1.0 (M)	0.1 (P)	0.01 (R)	0.001 (S)	1.0 (M)	0.1 (P)	0.01 (R)	0.001 (S)			
	Style CKR22, Voltage-temperature limits of 0 ± 60 ppm/°C.										
CKR22CH1R0D_	0001	0301	0601	0901	3001	3301	3601	3901	1.0	D	200
CKR22CH1R2D_	0004	0304	0604	0904	3004	3304	3604	3904	1.2	D	
CKR22CH1R5D_	0007	0307	0607	0907	3007	3307	3607	3907	1.5	D	
CKR22CH1R8D_	0010	0310	0610	0910	3010	3310	3610	3910	1.8	D	
CKR22CH2R2D_	0013	0313	0613	0913	3013	3313	3613	3913	2.2	D	
CKR22CH2R7D_	0016	0316	0616	0916	3016	3316	3616	3916	2.7	D	
CKR22CH3R3D_	0019	0319	0619	0919	3019	3319	3619	3919	3.3	D	
CKR22CH3R9D_	0022	0322	0622	0922	3022	3322	3622	3922	3.9	D	
CKR22CH4R7D_	0025	0325	0625	0925	3025	3325	3625	3925	4.7	D	
CKR22CH5R6D_	0028	0328	0628	0928	3028	3328	3628	3928	5.6	D	
CKR22CH6R8D_	0031	0331	0631	0931	3031	3331	3631	3931	6.8	D	
CKR22CH8R2D_	0034	0334	0634	0934	3034	3334	3634	3934	8.2	D	
CKR22CH100D_	0037	0337	0637	0937	3037	3337	3637	3937	10	D	
CKR22CH100J_	0038	0338	0638	0938	3038	3338	3638	3938	10	J	
CKR22CH100K_	0039	0339	0639	0939	3039	3339	3639	3939	10	K	
CKR22CH120D_	0040	0340	0640	0940	3040	3340	3640	3940	12	D	
CKR22CH120J_	0041	0341	0641	0941	3041	3341	3641	3941	12	J	
CKR22CH120K_	0042	0342	0642	0942	3042	3342	3642	3942	12	K	
CKR22CH150D_	0043	0343	0643	0943	3043	3343	3643	3943	15	D	
CKR22CH150J_	0044	0344	0644	0944	3044	3344	3644	3944	15	J	
CKR22CH150K_	0045	0345	0645	0945	3045	3345	3645	3945	15	K	
CKR22CH180D_	0046	0346	0646	0946	3046	3346	3646	3946	18	D	
CKR22CH180J_	0047	0347	0647	0947	3047	3347	3647	3947	18	J	
CKR22CH180K_	0048	0348	0648	0948	3048	3348	3648	3948	18	K	200
	Style CKR22, Voltage-temperature limits of ±30 ppm/°C,										
CKR22CG220D_	0049	0349	0649	0949	3049	3349	3649	3949	22	D	200
CKR22CG220J_	0050	0350	0650	0950	3050	3350	3650	3950	22	J	
CKR22CG220K_	0051	0351	0651	0951	3051	3351	3651	3951	22	K	
CKR22CG270D_	0052	0352	0652	0952	3052	3352	3652	3952	27	D	
CKR22CG270J_	0053	0353	0653	0953	3053	3353	3653	3953	27	J	
CKR22CG270K_	0054	0354	0654	0954	3054	3354	3654	3954	27	K	
CKR22CG330D_	0055	0355	0655	0955	3055	3355	3655	3955	33	D	
CKR22CG330J_	0056	0356	0656	0956	3056	3356	3656	3956	33	J	
CKR22CG330K_	0057	0357	0657	0957	3057	3357	3657	3957	33	K	
CKR22CG390D_	0058	0358	0658	0958	3058	3358	3658	3958	39	D	
CKR22CG390J_	0059	0359	0659	0959	3059	3359	3659	3959	39	J	
CKR22CG390K_	0060	0360	0660	0960	3060	3360	3660	3960	39	K	
CKR22CG470D_	0061	0361	0661	0961	3061	3361	3661	3961	47	D	
CKR22CG470J_	0062	0362	0662	0962	3062	3362	3662	3962	47	J	
CKR22CG470K_	0063	0363	0663	0963	3063	3363	3663	3963	47	K	
CKR22CG560D_	0064	0364	0664	0964	3064	3364	3664	3964	56	D	
CKR22CG560J_	0065	0365	0665	0965	3065	3365	3665	3965	56	J	
CKR22CG560K_	0066	0366	0666	0966	3066	3366	3666	3966	56	K	
CKR22CG680F_	0067	0367	0667	0967	3067	3367	3667	3967	68	F	
CKR22CG680J_	0068	0368	0668	0968	3068	3368	3668	3968	68	J	
CKR22CG680K_	0069	0369	0669	0969	3069	3369	3669	3969	68	K	
CKR22CG820F_	0070	0370	0670	0970	3070	3370	3670	3970	82	F	
CKR22CG820J_	0071	0371	0671	0971	3071	3371	3671	3971	82	J	
CKR22CG820K_	0072	0372	0672	0972	3072	3372	3672	3972	82	K	
CKR22CG101F_	0073	0373	0673	0973	3073	3373	3673	3973	100	F	
CKR22CG101J_	0074	0374	0674	0974	3074	3374	3674	3974	100	J	
CKR22CG101K_	0075	0375	0675	0975	3075	3375	3675	3975	100	K	
CKR22CG121F_	0076	0376	0676	0976	3076	3376	3676	3976	120	F	
CKR22CG121J_	0077	0377	0677	0977	3077	3377	3677	3977	120	J	
CKR22CG121K_	0078	0378	0678	0978	3078	3378	3678	3978	120	K	
CKR22CG151F_	0079	0379	0679	0979	3079	3379	3679	3979	150	F	
CKR22CG151J_	0080	0380	0680	0980	3080	3380	3680	3980	150	J	
CKR22CG151K_	0081	0381	0681	0981	3081	3381	3681	3981	150	K	
CKR22CG181F_	0082	0382	0682	0982	3082	3382	3682	3982	180	F	
CKR22CG181J_	0083	0383	0683	0983	3083	3383	3683	3983	180	J	
CKR22CG181K_	0084	0384	0684	0984	3084	3384	3684	3984	180	K	
CKR22CG221F_	0085	0385	0685	0985	3085	3385	3685	3985	220	F	
CKR22CG221J_	0086	0386	0686	0986	3086	3386	3686	3986	220	J	
CKR22CG221K_	0087	0387	0687	0987	3087	3387	3687	3987	220	K	
CKR22CG271F_	0088	0388	0688	0988	3088	3388	3688	3988	270	F	
CKR22CG271J_	0089	0389	0689	0989	3089	3389	3689	3989	270	J	200

Add appropriate failure rate level letter (M, P, R or S)

MILITARY DASH NUMBER IDENTIFICATION CKR22 TO MIL-PRF-39014/22

(Dash Number From Table)

Military Type Designation	Failure Rate Level (%/1,000 Hours)								Capacitance (pF)	Capacitance Tolerance	WVDC
	Standard Lead Length				Optional Longer Lead Length						
	1.0 (M)	0.1 (P)	0.01 (R)	0.001 (S)	1.0 (M)	0.1 (P)	0.01 (R)	0.001 (S)			
	Style CKR22, Voltage-temperature limits of ±30 ppm/°C, (continued)										
CKR22CG271K_	0090	0390	0690	0990	3090	3390	3690	3990	270	K	200
CKR22CG331F_	0091	0391	0691	0991	3091	3391	3691	3991	330	F	
CKR22CG331J_	0092	0392	0692	0992	3092	3392	3692	3992	330	J	
CKR22CG331K_	0093	0393	0693	0993	3093	3393	3693	3993	330	K	
CKR22CG391F_	0094	0394	0694	0994	3094	3394	3694	3994	390	F	
CKR22CG391J_	0095	0395	0695	0995	3095	3395	3695	3995	390	J	
CKR22CG391K_	0096	0396	0696	0996	3096	3396	3696	3996	390	K	
CKR22CG471F_	0097	0397	0697	0997	3097	3397	3697	3997	470	F	
CKR22CG471J_	0098	0398	0698	0998	3098	3398	3698	3998	470	J	
CKR22CG471K_	0099	0399	0699	0999	3099	3399	3699	3999	470	K	200
CKR22CG561F_	0100	0400	0700	1000	3100	3400	3700	4000	560	F	100
CKR22CG561J_	0101	0401	0701	1001	3101	3401	3701	4001	560	J	
CKR22CG561K_	0102	0402	0702	1002	3102	3402	3702	4002	560	K	
CKR22CG681F_	0103	0403	0703	1003	3103	3403	3703	4003	680	F	
CKR22CG681J_	0104	0404	0704	1004	3104	3404	3704	4004	680	J	
CKR22CG681K_	0105	0405	0705	1005	3105	3405	3705	4005	680	K	
CKR22CG821F_	0106	0406	0706	1006	3106	3406	3706	4006	820	F	
CKR22CG821J_	0107	0407	0707	1007	3107	3407	3707	4007	820	J	
CKR22CG821K_	0108	0408	0708	1008	3108	3408	3708	4008	820	K	
CKR22CG102F_	0109	0409	0709	1009	3109	3409	3709	4009	1000	F	
CKR22CG102J_	0110	0410	0710	1010	3110	3410	3710	4010	1000	J	
CKR22CG102K_	0111	0411	0711	1011	3111	3411	3711	4011	1000	K	
CKR22CG122F_	0112	0412	0712	1012	3112	3412	3712	4012	1200	F	
CKR22CG122J_	0113	0413	0713	1013	3113	3413	3713	4013	1200	J	
CKR22CG122K_	0114	0414	0714	1014	3114	3414	3714	4014	1200	K	
CKR22CG152F_	0115	0415	0715	1015	3115	3415	3715	4015	1500	F	
CKR22CG152J_	0116	0416	0716	1016	3116	3416	3716	4016	1500	J	
CKR22CG152K_	0117	0417	0717	1017	3117	3417	3717	4017	1500	K	
CKR22CG182F_	0118	0418	0718	1018	3118	3418	3718	4018	1800	F	
CKR22CG182J_	0119	0419	0719	1019	3119	3419	3719	4019	1800	J	
CKR22CG182K_	0120	0420	0720	1020	3120	3420	3720	4020	1800	K	
CKR22CG222F_	0121	0421	0721	1021	3121	3421	3721	4021	2200	F	
CKR22CG222J_	0122	0422	0722	1022	3122	3422	3722	4022	2200	J	
CKR22CG222K_	0123	0423	0723	1023	3123	3423	3723	4023	2200	K	100
CKR22CG272F_	0124	0424	0724	1024	3124	3424	3724	4024	2700	F	50
CKR22CG272J_	0125	0425	0725	1025	3125	3425	3725	4025	2700	J	
CKR22CG272K_	0126	0426	0726	1026	3126	3426	3726	4026	2700	K	
CKR22CG332F_	0127	0427	0727	1027	3127	3427	3727	4027	3300	F	
CKR22CG332J_	0128	0428	0728	1028	3128	3428	3728	4028	3300	J	
CKR22CG332K_	0129	0429	0729	1029	3129	3429	3729	4029	3300	K	
CKR22CG392F_	0130	0430	0730	1030	3130	3430	3730	4030	3900	F	
CKR22CG392J_	0131	0431	0731	1031	3131	3431	3731	4031	3900	J	
CKR22CG392K_	0132	0432	0732	1032	3132	3432	3732	4032	3900	K	
CKR22CG472F_	0133	0433	0733	1033	3133	3433	3733	4033	4700	F	
CKR22CG472J_	0134	0434	0734	1034	3134	3434	3734	4034	4700	J	
CKR22CG472K_	0135	0435	0735	1035	3135	3435	3735	4035	4700	K	
CKR22CG562F_	0136	0436	0736	1036	3136	3436	3736	4036	5600	F	
CKR22CG562J_	0137	0437	0737	1037	3137	3437	3737	4037	5600	J	
CKR22CG562K_	0138	0438	0738	1038	3138	3438	3738	4038	5600	K	
CKR22CG682F_	0139	0439	0739	1039	3139	3439	3739	4039	6800	F	
CKR22CG682J_	0140	0440	0740	1040	3140	3440	3740	4040	6800	J	
CKR22CG682K_	0141	0441	0741	1041	3141	3441	3741	4041	6800	K	
CKR22CG822F_	0142	0442	0742	1042	3142	3442	3742	4042	8200	F	
CKR22CG822J_	0143	0443	0743	1043	3143	3443	3743	4043	8200	J	
CKR22CG822K_	0144	0444	0744	1044	3144	3444	3744	4044	8200	K	
CKR22CG103F_	0145	0445	0745	1045	3145	3445	3745	4045	10,000	F	
CKR22CG103J_	0146	0446	0746	1046	3146	3446	3746	4046	10,000	J	
CKR22CG103K_	0147	0447	0747	1047	3147	3447	3747	4047	10,000	K	50

Add appropriate failure rate level letter (M, P, R or S)

MILITARY DASH NUMBER IDENTIFICATION CKR22 TO MIL-PRF-39014/22

(Dash Number From Table)

Military Type Designation	Failure Rate Level (%/1,000 Hours)								Capacitance (pF)	Capacitance Tolerance	WVDC
	Standard Lead Length				Optional Longer Lead Length						
	1.0 (M)	0.1 (P)	0.01 (R)	0.001 (S)	1.0 (M)	0.1 (P)	0.01 (R)	0.001 (S)			
	Style CKR22, Voltage-temperature limits of ±15% (+15%, -25% for Rated Voltage)										
CKR22BX271K_	0148	0448	0748	1048	3148	3448	3748	4048	270	K	200
CKR22BX331K_	0149	0449	0749	1049	3149	3449	3749	4049	330	K	
CKR22BX331M_	0150	0450	0750	1050	3150	3450	3750	4050	330	M	
CKR22BX391K_	0151	0451	0751	1051	3151	3451	3751	4051	390	K	
CKR22BX471K_	0152	0452	0752	1052	3152	3452	3752	4052	470	K	
CKR22BX471M_	0153	0453	0753	1053	3153	3453	3753	4053	470	M	
CKR22BX561K_	0154	0454	0754	1054	3154	3454	3754	4054	560	K	
CKR22BX681K_	0155	0455	0755	1055	3155	3455	3755	4055	680	K	
CKR22BX681M_	0156	0456	0756	1056	3156	3456	3756	4056	680	M	
CKR22BX821K_	0157	0457	0757	1057	3157	3457	3757	4057	820	K	200
CKR22BX102K_	0158	0458	0758	1058	3158	3458	3758	4058	1,000	K	100
CKR22BX102M_	0159	0459	0759	1059	3159	3459	3759	4059	1,000	M	
CKR22BX122K_	0160	0460	0760	1060	3160	3460	3760	4060	1,200	K	
CKR22BX152K_	0161	0461	0761	1061	3161	3461	3761	4061	1,500	K	
CKR22BX152M_	0162	0462	0762	1062	3162	3462	3762	4062	1,500	M	
CKR22BX182K_	0163	0463	0763	1063	3163	3463	3763	4063	1,800	K	
CKR22BX222K_	0164	0464	0764	1064	3164	3464	3764	4064	2,200	K	
CKR22BX222M_	0165	0465	0765	1065	3165	3465	3765	4065	2,200	M	
CKR22BX272K_	0166	0466	0766	1066	3166	3466	3766	4066	2,700	K	
CKR22BX332K_	0167	0467	0767	1067	3167	3467	3767	4067	3,300	K	
CKR22BX332M_	0168	0468	0768	1068	3168	3468	3768	4068	3,300	M	
CKR22BX392K_	0169	0469	0769	1069	3169	3469	3769	4069	3,900	K	
CKR22BX472K_	0170	0470	0770	1070	3170	3470	3770	4070	4,700	K	
CKR22BX472M_	0171	0471	0771	1071	3171	3471	3771	4071	4,700	M	
CKR22BX562K_	0172	0472	0772	1072	3172	3472	3772	4072	5,600	K	
CKR22BX682K_	0173	0473	0773	1073	3173	3473	3773	4073	6,800	K	
CKR22BX682M_	0174	0474	0774	1074	3174	3474	3774	4074	6,800	M	
CKR22BX822K_	0175	0475	0775	1075	3175	3475	3775	4075	8,200	K	
CKR22BX103K_	0176	0476	0776	1076	3176	3476	3776	4076	10,000	K	
CKR22BX103M_	0177	0477	0777	1077	3177	3477	3777	4077	10,000	M	100
CKR22BX123K_	0178	0478	0778	1078	3178	3478	3778	4078	12,000	K	50
CKR22BX153K_	0179	0479	0779	1079	3179	3479	3779	4079	15,000	K	
CKR22BX153M_	0180	0480	0780	1080	3180	3480	3780	4080	15,000	M	
CKR22BX183K_	0181	0481	0781	1081	3181	3481	3781	4081	18,000	K	
CKR22BX223K_	0182	0482	0782	1082	3182	3482	3782	4082	22,000	K	
CKR22BX223M_	0183	0483	0783	1083	3183	3483	3783	4083	22,000	M	
CKR22BX273K_	0184	0484	0784	1084	3184	3484	3784	4084	27,000	K	
CKR22BX333K_	0185	0485	0785	1085	3185	3485	3785	4085	33,000	K	
CKR22BX333M_	0186	0486	0786	1086	3186	3486	3786	4086	33,000	M	
CKR22BX393K_	0187	0487	0787	1087	3187	3487	3787	4087	39,000	K	
CKR22BX473K_	0188	0488	0788	1088	3188	3488	3788	4088	47,000	K	
CKR22BX473M_	0189	0489	0789	1089	3189	3489	3789	4089	47,000	M	
CKR22BX563K_	0190	0490	0790	1090	3190	3490	3790	4090	56,000	K	
CKR22BX683K_	0191	0491	0791	1091	3191	3491	3791	4091	68,000	K	
CKR22BX683M_	0192	0492	0792	1092	3192	3492	3792	4092	68,000	M	
CKR22BX823K_	0193	0493	0793	1093	3193	3493	3793	4093	82,000	K	
CKR22BX104K_	0194	0494	0794	1094	3194	3494	3794	4094	100,000	K	
CKR22BX104M_	0195	0495	0795	1095	3195	3495	3795	4095	100,000	M	50

Add appropriate failure rate level letter (M, P, R or S)

MILITARY DASH NUMBER IDENTIFICATION CKR23 TO MIL-PRF-39014/22

(Dash Number From Table)

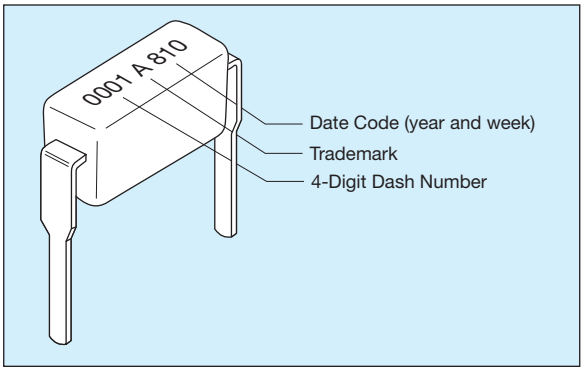
Military Type Designation	Failure Rate Level (%/1,000 Hours)								Capacitance (pF)	Capacitance Tolerance	WVDC
	Standard Lead Length				Optional Longer Lead Length						
	1.0 (M)	0.1 (P)	0.01 (R)	0.001 (S)	1.0 (M)	0.1 (P)	0.01 (R)	0.001 (S)			
	Style CKR23, Voltage-temperature limits of 0 ± 60 ppm/°C										
CKR23CG561F_	0258	0558	0858	1158	3258	3558	3858	4158	560	F	200
CKR23CG561J_	0259	0559	0859	1159	3259	3559	3859	4159	560	J	
CKR23CG561K_	0260	0560	0860	1160	3260	3560	3860	4160	560	K	
CKR23CG681F_	0261	0561	0861	1161	3261	3561	3861	4161	680	F	
CKR23CG681J_	0262	0562	0862	1162	3262	3562	3862	4162	680	J	
CKR23CG681K_	0263	0563	0863	1163	3263	3563	3863	4163	680	K	
CKR23CG821F_	0264	0564	0864	1164	3264	3564	3864	4164	820	F	
CKR23CG821J_	0265	0565	0865	1165	3265	3565	3865	4165	820	J	
CKR23CG821K_	0266	0566	0866	1166	3266	3566	3866	4166	820	K	
CKR23CG102F_	0267	0567	0867	1167	3267	3567	3867	4167	1,000	F	
CKR23CG102J_	0268	0568	0868	1168	3268	3568	3868	4168	1,000	J	
CKR23CG102K_	0269	0569	0869	1169	3269	3569	3869	4169	1,000	K	
CKR23CG122F_	0270	0570	0870	1170	3270	3570	3870	4170	1,200	F	
CKR23CG122J_	0271	0571	0871	1171	3271	3571	3871	4171	1,200	J	
CKR23CG122K_	0272	0572	0872	1172	3272	3572	3872	4172	1,200	K	200
CKR23CG272F_	0273	0573	0873	1173	3273	3573	3873	4173	2,700	F	100
CKR23CG272J_	0274	0574	0874	1174	3274	3574	3874	4174	2,700	J	
CKR23CG272K_	0275	0575	0875	1175	3275	3575	3875	4175	2,700	K	
CKR23CG332F_	0276	0576	0876	1176	3276	3576	3876	4176	3,300	F	
CKR23CG332J_	0277	0577	0877	1177	3277	3577	3877	4177	3,300	J	
CKR23CG332K_	0278	0578	0878	1178	3278	3578	3878	4178	3,300	K	100
CKR23CG472F_	0279	0579	0879	1179	3279	3579	3879	4179	4,700	F	50
CKR23CG472J_	0280	0580	0880	1180	3280	3580	3880	4180	4,700	J	
CKR23CG472K_	0281	0581	0881	1181	3281	3581	3881	4181	4,700	K	
CKR23CG562F_	0282	0582	0882	1182	3282	3582	3882	4182	5,600	F	
CKR23CG562J_	0283	0583	0883	1183	3283	3583	3883	4183	5,600	J	
CKR23CG562K_	0284	0584	0884	1184	3284	3584	3884	4184	5,600	K	
CKR23CG682F_	0285	0585	0885	1185	3285	3585	3885	4185	6,800	F	
CKR23CG682J_	0286	0586	0886	1186	3286	3586	3886	4186	6,800	J	
CKR23CG682K_	0287	0587	0887	1187	3287	3587	3887	4187	6,800	K	
CKR23CG822F_	0288	0588	0888	1188	3288	3588	3888	4188	8,200	F	
CKR23CG822J_	0289	0589	0889	1189	3289	3589	3889	4189	8,200	J	
CKR23CG822K_	0290	0590	0890	1190	3290	3590	3890	4190	8,200	K	
CKR23CG103F_	0291	0591	0891	1191	3291	3591	3891	4191	10,000	F	
CKR23CG103J_	0292	0592	0892	1192	3292	3592	3892	4192	10,000	J	
CKR23CG103K_	0293	0593	0893	1193	3293	3593	3893	4193	10,000	K	50
	Style CKR23, voltage-temperature limits of ±15% (+15%, -25% for Rated Voltage)										
CKR23BX102K_	0196	0496	0796	1096	3196	3496	3796	4096	1,000	K	200
CKR23BX102M_	0197	0497	0797	1097	3197	3497	3797	4097	1,000	M	
CKR23BX122K_	0198	0498	0798	1098	3198	3498	3798	4098	1,200	K	
CKR23BX152K_	0199	0499	0799	1099	3199	3499	3799	4099	1,500	K	
CKR23BX152M_	0200	0500	0800	1100	3200	3500	3800	4100	1,500	M	
CKR23BX182K_	0201	0501	0801	1101	3201	3501	3801	4101	1,800	K	
CKR23BX222K_	0202	0502	0802	1102	3202	3502	3802	4102	2,200	K	
CKR23BX222M_	0203	0503	0803	1103	3203	3503	3803	4103	2,200	M	
CKR23BX272K_	0204	0504	0804	1104	3204	3504	3804	4104	2,700	K	
CKR23BX332K_	0205	0505	0805	1105	3205	3505	3805	4105	3,300	K	
CKR23BX332M_	0206	0506	0806	1106	3206	3506	3806	4106	3,300	M	
CKR23BX392K_	0207	0507	0807	1107	3207	3507	3807	4107	3,900	K	
CKR23BX472K_	0208	0508	0808	1108	3208	3508	3808	4108	4,700	K	
CKR23BX472M_	0209	0509	0809	1109	3209	3509	3809	4109	4,700	M	
CKR23BX562K_	0210	0510	0810	1110	3210	3510	3810	4110	5,600	K	
CKR23BX682K_	0211	0511	0811	1111	3211	3511	3811	4111	6,800	K	
CKR23BX682M_	0212	0512	0812	1112	3212	3512	3812	4112	6,800	M	
CKR23BX822K_	0213	0513	0813	1113	3213	3513	3813	4113	8,200	K	
CKR23BX103K_	0214	0514	0814	1114	3214	3514	3814	4114	10,000	K	
CKR23BX103M_	0215	0515	0815	1115	3215	3515	3815	4115	10,000	M	200
CKR23BX123K_	0216	0516	0816	1116	3216	3516	3816	4116	12,000	K	100
CKR23BX153K_	0217	0517	0817	1117	3217	3517	3817	4117	15,000	K	
CKR23BX153M_	0218	0518	0818	1118	3218	3518	3818	4118	15,000	M	
CKR23BX183K_	0219	0519	0819	1119	3219	3519	3819	4119	18,000	K	
CKR23BX223K_	0220	0520	0820	1120	3220	3520	3820	4120	22,000	K	
CKR23BX223M_	0221	0521	0821	1121	3221	3521	3821	4121	22,000	M	
CKR23BX273K_	0222	0522	0822	1122	3222	3522	3822	4122	27,000	K	
CKR23BX333K_	0223	0523	0823	1123	3223	3523	3823	4123	33,000	K	
CKR23BX333M_	0224	0524	0824	1124	3224	3524	3824	4124	33,000	M	
CKR23BX393K_	0225	0525	0825	1125	3225	3525	3825	4125	39,000	K	
CKR23BX473K_	0226	0526	0826	1126	3226	3526	3826	4126	47,000	K	
CKR23BX473M_	0227	0527	0827	1127	3227	3527	3827	4127	47,000	M	
CKR23BX563K_	0228	0528	0828	1128	3228	3528	3828	4128	56,000	K	
CKR23BX683K_	0229	0529	0829	1129	3229	3529	3829	4129	68,000	K	
CKR23BX683M_	0230	0530	0830	1130	3230	3530	3830	4130	68,000	M	
CKR23BX823K_	0231	0531	0831	1131	3231	3531	3831	4131	82,000	K	
CKR23BX104K_	0232	0532	0832	1132	3232	3532	3832	4132	100,000	K	
CKR23BX104M_	0233	0533	0833	1133	3233	3533	3833	4133	100,000	M	100
CKR23BX124K_	0234	0534	0834	1134	3234	3534	3834	4134	120,000	K	50
CKR23BX154K_	0235	0535	0835	1135	3235	3535	3835	4135	150,000	K	
CKR23BX154M_	0236	0536	0836	1136	3236	3536	3836	4136	150,000	M	
CKR23BX184K_	0237	0537	0837	1137	3237	3537	3837	4137	180,000	K	
CKR23BX224K_	0238	0538	0838	1138	3238	3538	3838	4138	220,000	K	
CKR23BX224M_	0239	0539	0839	1139	3239	3539	3839	4139	220,000	M	50

Add appropriate failure rate level letter (M, P, R or S)

MILITARY DASH NUMBER IDENTIFICATION CKR24 TO MIL-PRF-39014/22

(Dash Number From Table)

Military Type Designation	Failure Rate Level (%/1,000 Hours)								Capacitance (pF)	Capacitance Tolerance	WVDC
	Standard Lead Length				Optional Longer Lead Length						
	1.0 (M)	0.1 (P)	0.01 (R)	0.001 (S)	1.0 (M)	0.1 (P)	0.01 (R)	0.001 (S)			
	Style CKR24, Characteristic BX (Voltage-temperature limits of ±15% and +15%, -25%)										
CKR24BX274K_	0294	0594	0894	1194	3294	3594	3894	4194	270000	K	50
CKR24BX274K_	0295	0595	0895	1195	3295	3595	3895	4195	270000	M	
CKR24BX334K_	0296	0596	0896	1196	3296	3596	3896	4196	330000	K	
CKR24BX334M_	0297	0597	0897	1197	3297	3597	3897	4197	330000	M	
CKR24BX394K_	0298	0598	0898	1198	3298	3598	3898	4198	390000	K	
CKR24BX394M_	0299	0599	0899	1199	3299	3599	3899	4199	390000	M	
CKR24BX474K_	0300	0600	0900	1200	3300	3600	3900	4200	470000	K	
CKR24BX474M_	0301	0601	0901	1201	3301	3601	3901	4201	470000	M	
CKR24BX564K_	0302	0602	0902	1202	3302	3602	3902	4202	560000	K	
CKR24BX564M_	0303	0603	0903	1203	3303	3603	3903	4203	560000	M	
CKR24BX684K_	0304	0604	0904	1204	3304	3604	3904	4204	680000	K	
CKR24BX684M_	0305	0605	0905	1205	3305	3605	3905	4205	680000	M	
CKR24BX824K_	0306	0606	0906	1206	3306	3606	3906	4206	820000	K	
CKR24BX824M_	0307	0607	0907	1207	3307	3607	3907	4207	820000	M	
CKR24BX105K_	0308	0608	0908	1208	3308	3608	3908	4208	1000000	K	
CKR24BX105M_	0309	0609	0909	1209	3309	3609	3909	4209	1000000	M	50
	Style CKR24, Characteristic BR (Voltage-temperature limits of ±15% and +15%, -40%)										
CKR24BR124K_	0240	0540	0840	1140	3240	3540	3840	4140	120000	K	100
CKR24BR124M_	0310	0610	0910	1210	3310	3610	3910	4210	120000	M	100
CKR24BR154K_	0241	0541	0841	1141	3241	3541	3841	4141	150000	K	100
CKR24BR154M_	0242	0542	0842	1142	3242	3542	3842	4142	150000	M	100
CKR24BR184K_	0243	0543	0843	1143	3243	3543	3843	4143	180000	K	50
CKR24BR184M_	0311	0611	0911	1211	3311	3611	3911	4211	180000	M	50
CKR24BR224K_	0244	0544	0844	1144	3244	3544	3844	4144	220000	K	50
CKR24BR224M_	0245	0545	0845	1145	3245	3545	3845	4145	220000	M	50
CKR24BR274K_	0246	0546	0846	1146	3246	3546	3846	4146	270000	K	50
CKR24BR274M_	0312	0612	0912	1212	3312	3612	3912	4212	270000	M	50
CKR24BR334K_	0247	0547	0847	1147	3247	3547	3847	4147	330000	K	50
CKR24BR334M_	0248	0548	0848	1148	3248	3548	3848	4148	330000	M	50
CKR24BR394K_	0249	0549	0849	1149	3249	3549	3849	4149	390000	K	50
CKR24BR394M_	0313	0613	0913	1213	3313	3613	3913	4213	390000	M	50
CKR24BR474K_	0250	0550	0850	1150	3250	3550	3850	4150	470000	K	50
CKR24BR474M_	0251	0551	0851	1151	3251	3551	3851	4151	470000	M	50
CKR24BR564K_	0252	0552	0852	1152	3252	3552	3852	4152	560000	K	50
CKR24BR684K_	0253	0553	0853	1153	3253	3553	3853	4153	680000	K	50
CKR24BR684M_	0254	0554	0854	1154	3254	3554	3854	4154	680000	M	50
CKR24BR824M_	0255	0555	0855	1155	3255	3555	3855	4155	820000	M	50
CKR24BR105K_	0256	0556	0856	1156	3256	3556	3856	4156	1000000	K	50
CKR24BR105M_	0257	0557	0857	1157	3257	3557	3857	4157	1000000	M	50

Add appropriate failure rate level letter (M, P, R or S)

MARKING