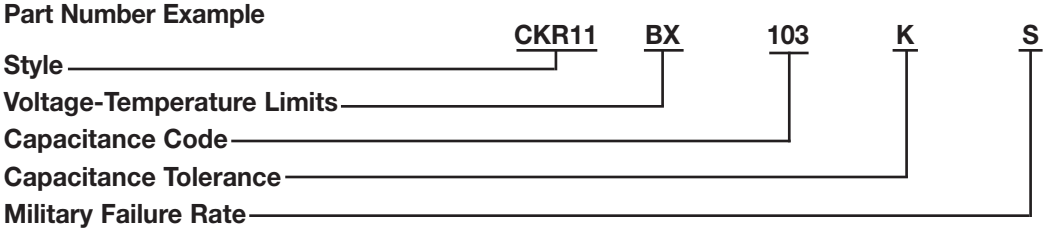
HOW TO ORDER

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

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

Part Number Example



MIL Part No. Codes

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

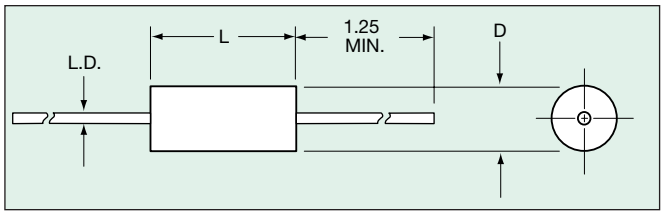
Voltage-Temperature Limits:
First letter identifies temperature range.
B = -55°C to +125°C
Second letter identifies voltage-temperature coefficient.

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

Sig. Fig. Capacitance and Multiplier:
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.

Capacitance Tolerances: K = ±10%, M = ±20%

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-C-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

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-C-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-C-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-C-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)

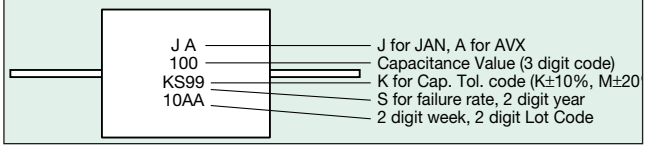
MILITARY DASH NUMBER IDENTIFICATION CKR15/16 to MIL-C-39014/05
(Dash Number From Table)

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

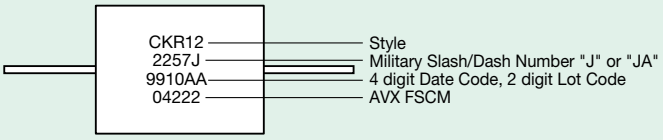
Add appropriate failure rate level letter (M, P, R or S)

MARKING

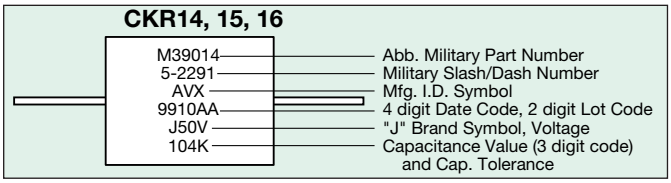
CKR11



CKR12



CKR14, 15, 16



CROSS REFERENCE CHART - AVX MILITARY FOR MOLDED AXIAL LEAD

	Per Mil-Spec			Case Size		
AVX Style	MIL-C-11015	MIL-C-39014	MIL-C-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)