

Type CSR13 (MIL-C-39003/01) Solid Tantalum Capacitors

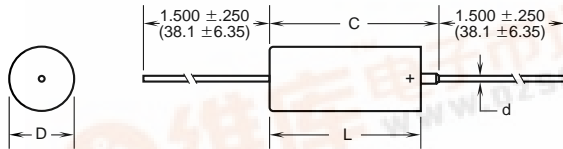
125 °C, Hermetically Sealed, Axial Leaded, Solid Tantalum Capacitors

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Type CSR13 (MIL-C-39003/01) military grade, axial leaded, solid tantalum capacitors are hermetically sealed for rugged environmental applications. They are miniature in size and are available in graded failure rate levels.

Outline Drawing



Highlights

- Hermetically Sealed
- Graded Failure Rates
- Low DC Leakage
- Long Shelf Life
- Low DF
- Temperature Stable
- Frequency Stable

Specifications

| | |
|---|--|
| Capacitance Range: | .0047 to 330 μ F |
| Voltage Range: | 6 to 100 WVdc at +85 °C |
| Capacitance Tolerance: | \pm 10%, \pm 20%, (\pm 5% by special order) |
| Operating Temperature Range: | -55 to +125 °C |
| Reverse Voltage (Non-continuous) | 15% of rated voltage @ +25 °C 5% of rated voltage @ +85 °C 1% of rated voltage @ +125 °C |
| DC Leakage: | At +25 °C – See ratings limit At +85 °C – 10 x ratings limit At +125 °C – 12.5 x ratings limit |
| Capacitance Change Maximum: | -10% @ -55°C +8% @ +85 °C +12% @ +125 °C |

Maximum Power Dissipation @ +25 °C:

| Case Code | Watts |
|-----------|-------|
| A | 0.090 |
| B | 0.100 |
| C | 0.125 |
| D | 0.180 |

Case Sizes

| Case Code | Uninsulated | | Insulated | | C Maximum | d \pm .001 (\pm .03) | Quantity Per Reel |
|-----------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|--------------|---------------------------------|-------------------------|
| | D \pm .005 (\pm .13) | L \pm .031 (\pm .79) | D \pm .010 (\pm .25) | L \pm .031 (\pm .79) | | | |
| A | .125 (3.18) | .250 (6.35) | .135 (3.43) | .286 (7.26) | .422 (10.72) | .020 (.51) | 3,500 |
| B | .175 (4.45) | .438 (11.13) | .185 (4.70) | .474 (12.04) | .610 (15.49) | .020 (.51) | 2,500 |
| C | .279 (7.09) | .650 (16.51) | .289 (7.34) | .686 (17.42) | .822 (20.88) | .025 (.64) | 500 |
| D | .341 (8.66) | .750 (19.05) | .351 (8.92) | .786 (19.96) | .922 (23.42) | .025 (.64) | 400 |



Type CSR13 (MIL-C-39003/01) Solid Tantalum Capacitors

Ratings

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| Cap (μ F) | Catalog Part Number | Cap Tol. \pm (%) | Case Code | Max DCL @ +25 °C (μ A) | Max. DF @ +25 °C 120 Hz (%) | MIL-C-39003/1 (CSR13) Dash Numbers | | | | | | |
|---|------------------------|--------------------------|--------------|--------------------------------------|---|--|-----------------------|-----------------------|------------------------|--|-----------------------|------------------------|
| | | | | | | Exponential Failure Rate (% per 1000 hours) | | | | Weibull Failure Rate (% per 1000 hours) | | |
| | | | | | | 'M' Level (1.0) | 'P' Level (.10) | 'R' Level (.01) | 'S' Level (.001) | 'B' Level (.10) | 'C' Level (.01) | 'D' Level (.001) |
| 6 WVdc @ +85 °C — 4 WVdc @ +125 °C | | | | | | | | | | | | |
| 5.6 | CSR13B565K* | 10 | A | 0.3 | 4 | 2241 | 2481 | 2721 | 2961 | 6002 | 7002 | 8002 |
| 6.8 | CSR13B685K* | 10 | A | 0.3 | 6 | 2242 | 2482 | 2722 | 2962 | 6004 | 7004 | 8004 |
| 6.8 | CSR13B685M* | 20 | A | 0.3 | 6 | 2243 | 2483 | 2723 | 2963 | 6005 | 7005 | 8005 |
| 47 | CSR13B476K* | 10 | B | 1.5 | 6 | 2244 | 2484 | 2724 | 2964 | 6007 | 7007 | 8007 |
| 47 | CSR13B476M* | 20 | B | 1.5 | 6 | 2245 | 2485 | 2725 | 2965 | 6008 | 7008 | 8008 |
| 56 | CSR13B566K* | 10 | B | 1.5 | 6 | 2246 | 2486 | 2726 | 2966 | 6010 | 7010 | 8010 |
| 150 | CSR13B157K* | 10 | C | 4.5 | 6 | 2247 | 2487 | 2727 | 2967 | 6012 | 7012 | 8012 |
| 150 | CSR13B157M* | 20 | C | 4.5 | 6 | 2248 | 2488 | 2728 | 2968 | 6013 | 7013 | 8013 |
| 180 | CSR13B187K* | 10 | C | 5.5 | 6 | 2249 | 2489 | 2729 | 2969 | 6015 | 7015 | 8015 |
| 270 | CSR13B277K* | 10 | D | 6.0 | 8 | 2250 | 2490 | 2730 | 2970 | 6017 | 7017 | 8017 |
| 330 | CSR13B337K* | 10 | D | 7.5 | 8 | 2251 | 2491 | 2731 | 2971 | 6019 | 7019 | 8019 |
| 330 | CSR13B337M* | 20 | D | 7.5 | 8 | 2252 | 2492 | 2732 | 2972 | 6020 | 7020 | 8020 |
| 10 WVdc @ +85 °C — 7 WVdc @ +125 °C | | | | | | | | | | | | |
| 3.9 | CSR13C395K* | 10 | A | 0.3 | 4 | 2253 | 2493 | 2733 | 2973 | 6022 | 7022 | 8022 |
| 4.7 | CSR13C475K* | 10 | A | 0.4 | 4 | 2254 | 2494 | 2734 | 2974 | 6024 | 7024 | 8024 |
| 4.7 | CSR13C475M* | 20 | A | 0.4 | 4 | 2255 | 2495 | 2735 | 2975 | 6025 | 7025 | 8025 |
| 27 | CSR13C276K* | 10 | B | 2.0 | 6 | 2256 | 2496 | 2736 | 2976 | 6027 | 7027 | 8027 |
| 33 | CSR13C336K* | 10 | B | 2.0 | 6 | 2257 | 2497 | 2737 | 2977 | 6029 | 7029 | 8029 |
| 33 | CSR13C336M* | 20 | B | 2.0 | 6 | 2258 | 2498 | 2738 | 2978 | 6030 | 7030 | 8030 |
| 39 | CSR13C396K* | 10 | B | 2.0 | 6 | 2259 | 2499 | 2739 | 2979 | 6032 | 7032 | 8032 |
| 82 | CSR13C826K* | 10 | C | 3.0 | 6 | 2260 | 2500 | 2740 | 2980 | 6034 | 7034 | 8034 |
| 100 | CSR13C107K* | 10 | C | 5.0 | 6 | 2261 | 2501 | 2741 | 2981 | 6036 | 7036 | 8036 |
| 100 | CSR13C107M* | 20 | C | 5.0 | 6 | 2262 | 2502 | 2742 | 2982 | 6037 | 7037 | 8037 |
| 120 | CSR13C127K* | 10 | C | 6.0 | 6 | 2263 | 2503 | 2743 | 2983 | 6039 | 7039 | 8039 |
| 180 | CSR13C187K* | 10 | D | 9.0 | 6 | 2264 | 2504 | 2744 | 2984 | 6041 | 7041 | 8041 |
| 220 | CSR13C227K* | 10 | D | 10.0 | 8 | 2265 | 2505 | 2745 | 2985 | 6043 | 7043 | 8043 |
| 220 | CSR13C227M* | 20 | D | 10.0 | 8 | 2266 | 2506 | 2746 | 2986 | 6044 | 7044 | 8044 |
| 15 WVdc @ +85 °C — 10 WVdc @ +125 °C | | | | | | | | | | | | |
| 2.7 | CSR13D275K* | 10 | A | 0.3 | 4 | 2267 | 2507 | 2747 | 2987 | 6046 | 7046 | 8046 |
| 3.3 | CSR13D335K* | 10 | A | 0.4 | 4 | 2268 | 2508 | 2748 | 2988 | 6048 | 7048 | 8048 |
| 3.3 | CSR13D335M* | 20 | A | 0.4 | 4 | 2269 | 2509 | 2749 | 2989 | 6049 | 7049 | 8049 |
| 18 | CSR13D186K* | 10 | B | 2.0 | 6 | 2270 | 2510 | 2750 | 2990 | 6051 | 7051 | 8051 |
| 22 | CSR13D226K* | 10 | B | 2.0 | 6 | 2271 | 2511 | 2751 | 2991 | 6053 | 7053 | 8053 |
| 22 | CSR13D226M* | 20 | B | 2.0 | 6.0 | 2272 | 2512 | 2752 | 2992 | 6054 | 7054 | 8054 |
| 56 | CSR13D566K* | 10 | C | 4.0 | 6.0 | 2273 | 2513 | 2753 | 2993 | 6056 | 7056 | 8056 |
| 68 | CSR13D686K* | 10 | C | 5.0 | 6.0 | 2274 | 2514 | 2754 | 2994 | 6058 | 7058 | 8058 |
| 68 | CSR13D686M* | 20 | C | 5.0 | 6.0 | 2275 | 2515 | 2755 | 2995 | 6059 | 7059 | 8059 |
| 120 | CSR13D127K* | 10 | D | 6.0 | 6.0 | 2276 | 2516 | 2756 | 2996 | 6061 | 7061 | 8061 |
| 150 | CSR13D157K* | 10 | D | 8.0 | 6.0 | 2277 | 2517 | 2757 | 2997 | 6063 | 7063 | 8063 |
| 150 | CSR13D157M* | 20 | D | 8.0 | 6.0 | 2278 | 2518 | 2758 | 2998 | 6064 | 7064 | 8064 |

* Failure rate level indicator
(M, P, R, S)

Type CSR13 (MIL-C-39003/01) Solid Tantalum Capacitors

Rating [查询"CSR13C475K"供应商](#)

| Cap (μ F) | Catalog Part Number | Cap Tol. \pm (%) | Case Code | Max DCL @ +25 °C (μ A) | Max. DF @ +25 °C 120 Hz (%) | MIL-C-39003/1 (CSR13) Dash Numbers | | | | | | |
|---|------------------------|--------------------------|--------------|--------------------------------------|---|--|-----------------------|-----------------------|------------------------|--|-----------------------|------------------------|
| | | | | | | Exponential Failure Rate (% per 1000 hours) | | | | Weibull Failure Rate (% per 1000 hours) | | |
| | | | | | | 'M' Level (1.0) | 'P' Level (.10) | 'R' Level (.01) | 'S' Level (.001) | 'B' Level (.10) | 'C' Level (.01) | 'D' Level (.001) |
| 20 WVdc @ +85 °C — 13 WVdc @ +125 °C | | | | | | | | | | | | |
| 1.2 | CSR13E125K* | 10 | A | 0.3 | 6 | 2279 | 2519 | 2759 | 2999 | 6066 | 7066 | 8066 |
| 1.5 | CSR13E155K* | 10 | A | 0.3 | 6 | 2280 | 2520 | 2760 | 3000 | 6068 | 7068 | 8068 |
| 1.5 | CSR13E155M* | 20 | A | 0.3 | 6 | 2281 | 2521 | 2761 | 3001 | 6069 | 7069 | 8069 |
| 1.8 | CSR13E185K* | 10 | A | 0.3 | 6 | 2282 | 2522 | 2762 | 3002 | 6071 | 7071 | 8071 |
| 2.2 | CSR13E225K* | 10 | A | 0.4 | 6 | 2283 | 2523 | 2763 | 3003 | 6073 | 7073 | 8073 |
| 2.2 | CSR13E225M* | 20 | A | 0.4 | 6 | 2284 | 2524 | 2764 | 3004 | 6074 | 7074 | 8074 |
| 8.2 | CSR13E825K* | 10 | B | 1.0 | 6 | 2285 | 2525 | 2765 | 3005 | 6076 | 7076 | 8076 |
| 10 | CSR13E106K* | 10 | B | 1.0 | 6 | 2286 | 2526 | 2766 | 3006 | 6078 | 7078 | 8078 |
| 10 | CSR13E106M* | 20 | B | 1.0 | 6 | 2287 | 2527 | 2767 | 3007 | 6079 | 7079 | 8079 |
| 12 | CSR13E126K* | 10 | B | 1.0 | 6 | 2288 | 2528 | 2768 | 3008 | 6081 | 7081 | 8081 |
| 15 | CSR13E156K* | 10 | B | 2.0 | 6 | 2289 | 2529 | 2769 | 3009 | 6083 | 7083 | 8083 |
| 15 | CSR13E156M* | 20 | B | 2.0 | 6 | 2290 | 2530 | 2770 | 3010 | 6084 | 7084 | 8084 |
| 27 | CSR13E276K* | 10 | C | 2.5 | 6 | 2291 | 2531 | 2771 | 3011 | 6086 | 7086 | 8086 |
| 33 | CSR13E336K* | 10 | C | 3.0 | 6 | 2292 | 2532 | 2772 | 3012 | 6088 | 7088 | 8088 |
| 33 | CSR13E336M* | 20 | C | 3.0 | 6 | 2293 | 2533 | 2773 | 3013 | 6089 | 7089 | 8089 |
| 39 | CSR13E396K* | 10 | C | 3.0 | 6 | 2294 | 2534 | 2774 | 3014 | 6091 | 7091 | 8091 |
| 47 | CSR13E476K* | 10 | C | 4.5 | 6 | 2295 | 2535 | 2775 | 3015 | 6093 | 7093 | 8093 |
| 47 | CSR13E476M* | 20 | C | 4.5 | 6 | 2296 | 2536 | 2776 | 3016 | 6094 | 7094 | 8094 |
| 56 | CSR13E566K* | 10 | D | 5.5 | 6 | 2297 | 2537 | 2777 | 3017 | 6096 | 7096 | 8096 |
| 68 | CSR13E686K* | 10 | D | 6.0 | 6 | 2298 | 2538 | 2778 | 3018 | 6098 | 7098 | 8098 |
| 68 | CSR13E686M* | 20 | D | 6.0 | 6 | 2299 | 2539 | 2779 | 3019 | 6099 | 7099 | 8099 |
| 82 | CSR13E826K* | 10 | D | 6.0 | 6 | 2300 | 2540 | 2780 | 3020 | 6101 | 7101 | 8101 |
| 100 | CSR13E107K* | 10 | D | 10.0 | 6 | 2301 | 2541 | 2781 | 3021 | 6103 | 7103 | 8103 |
| 100 | CSR13E107M* | 20 | D | 10.0 | 6 | 2302 | 2542 | 2782 | 3022 | 6104 | 7104 | 8104 |
| 35 WVdc @ +85 °C — 23 WVdc @ +125 °C | | | | | | | | | | | | |
| 5.6 | CSR13F565K* | 10 | B | 1.0 | 4 | 2303 | 2543 | 2783 | 3023 | 6106 | 7106 | 8106 |
| 6.8 | CSR13F685K* | 10 | B | 1.5 | 4 | 2304 | 2544 | 2784 | 3024 | 6108 | 7108 | 8108 |
| 6.8 | CSR13F685M* | 20 | B | 1.5 | 4 | 2305 | 2545 | 2785 | 3025 | 6109 | 7109 | 8109 |
| 22.0 | CSR13F226K* | 10 | C | 4.0 | 4 | 2306 | 2546 | 2786 | 3026 | 6111 | 7111 | 8111 |
| 22.0 | CSR13F226M* | 20 | C | 4.0 | 4 | 2307 | 2547 | 2787 | 3027 | 6112 | 7112 | 8112 |
| 27.0 | CSR13F276K* | 10 | D | 4.5 | 4 | 2308 | 2548 | 2788 | 3028 | 6114 | 7114 | 8114 |
| 33.0 | CSR13F336K* | 10 | D | 5.5 | 4 | 2309 | 2549 | 2789 | 3029 | 6116 | 7116 | 8116 |
| 33.0 | CSR13F336M* | 20 | D | 5.5 | 4 | 2310 | 2550 | 2790 | 3030 | 6117 | 7117 | 8117 |
| 39.0 | CSR13F396K* | 10 | D | 6.0 | 4 | 2311 | 2551 | 2791 | 3031 | 6119 | 7119 | 8119 |
| 47.0 | CSR13F476K* | 10 | D | 6.0 | 4 | 2312 | 2552 | 2792 | 3032 | 6121 | 7121 | 8121 |
| 47.0 | CSR13F476M* | 20 | D | 8.0 | 4 | 2313 | 2553 | 2793 | 3033 | 6122 | 7122 | 8122 |
| 50 WVdc @ +85 °C — 33 WVdc @ +125 °C | | | | | | | | | | | | |
| 0.0047 | CSR13G472K* | 10 | A | 0.1 | 2 | 2314 | 2554 | 2794 | 3034 | 6124 | 7124 | 8124 |
| 0.0047 | CSR13G472M* | 20 | A | 0.1 | 2 | 2315 | 2555 | 2795 | 3035 | 6125 | 7125 | 8125 |
| 0.0056 | CSR13G562K* | 10 | A | 0.1 | 2 | 2316 | 2556 | 2796 | 3036 | 6127 | 7127 | 8127 |

* Failure rate level indicator
(M, P, R, S)

Type CSR13 (MIL-C-39003/01) Solid Tantalum Capacitors

Ratings

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| Cap (μ F) | Catalog Part Number | Cap Tol. \pm (%) | Case Code | Max DCL @ +25 °C (μ A) | Max. DF @ +25 °C 120 Hz (%) | MIL-C-39003/1 (CSR13) Dash Numbers | | | | | | |
|---|------------------------|--------------------------|--------------|--------------------------------------|---|--|-----------------------|-----------------------|------------------------|--|-----------------------|------------------------|
| | | | | | | Exponential Failure Rate (% per 1000 hours) | | | | Weibull Failure Rate (% per 1000 hours) | | |
| | | | | | | 'M' Level (1.0) | 'P' Level (.10) | 'R' Level (.01) | 'S' Level (.001) | 'B' Level (.10) | 'C' Level (.01) | 'D' Level (.001) |
| 50 WVdc @ +85 °C — 33 WVdc @ +125 °C | | | | | | | | | | | | |
| 0.0068 | CSR13G682K* | 10 | A | 0.1 | 2 | 2317 | 2557 | 2797 | 3037 | 6129 | 7129 | 8129 |
| 0.0068 | CSR13G682M* | 20 | A | 0.1 | 2 | 2318 | 2558 | 2798 | 3038 | 6130 | 7130 | 8130 |
| 0.0082 | CSR13G822K* | 10 | A | 0.1 | 2 | 2319 | 2559 | 2799 | 3039 | 6132 | 7132 | 8132 |
| 0.010 | CSR13G103K* | 10 | A | 0.1 | 2 | 2320 | 2560 | 2800 | 3040 | 6134 | 7134 | 8134 |
| 0.010 | CSR13G103M* | 20 | A | 0.1 | 2 | 2321 | 2561 | 2801 | 3041 | 6135 | 7135 | 8135 |
| 0.012 | CSR13G123K* | 10 | A | 0.1 | 2 | 2322 | 2562 | 2802 | 3042 | 6137 | 7137 | 8137 |
| 0.015 | CSR13G153K* | 10 | A | 0.1 | 2 | 2323 | 2563 | 2803 | 3043 | 6139 | 7139 | 8139 |
| 0.015 | CSR13G153M* | 20 | A | 0.1 | 2 | 2324 | 2564 | 2804 | 3044 | 6140 | 7140 | 8140 |
| 0.018 | CSR13G183K* | 10 | A | 0.1 | 2 | 2325 | 2565 | 2805 | 3045 | 6142 | 7142 | 8142 |
| 0.022 | CSR13G223K* | 10 | A | 0.1 | 2 | 2326 | 2566 | 2806 | 3046 | 6144 | 7144 | 8144 |
| 0.022 | CSR13G223M* | 20 | A | 0.1 | 2 | 2327 | 2567 | 2807 | 3047 | 6145 | 7145 | 8145 |
| 0.027 | CSR13G273K* | 10 | A | 0.1 | 2 | 2328 | 2568 | 2808 | 3048 | 6147 | 7147 | 8147 |
| 0.033 | CSR13G333K* | 10 | A | 0.1 | 2 | 2329 | 2569 | 2809 | 3049 | 6149 | 7149 | 8149 |
| 0.033 | CSR13G333M* | 20 | A | 0.1 | 2 | 2330 | 2570 | 2810 | 3050 | 6150 | 7150 | 8150 |
| 0.039 | CSR13G393K* | 10 | A | 0.1 | 2 | 2331 | 2571 | 2811 | 3051 | 6152 | 7152 | 8152 |
| 0.047 | CSR13G473K* | 10 | A | 0.1 | 2 | 2332 | 2572 | 2812 | 3052 | 6154 | 7154 | 8154 |
| 0.047 | CSR13G473M* | 20 | A | 0.1 | 2 | 2333 | 2573 | 2813 | 3053 | 6155 | 7155 | 8155 |
| 0.056 | CSR13G563K* | 10 | A | 0.1 | 2 | 2334 | 2574 | 2814 | 3054 | 6157 | 7157 | 8157 |
| 0.068 | CSR13G683K* | 10 | A | 0.1 | 2 | 2335 | 2575 | 2815 | 3055 | 6159 | 7159 | 8159 |
| 0.068 | CSR13G683M* | 20 | A | 0.1 | 2 | 2336 | 2576 | 2816 | 3056 | 6160 | 7160 | 8160 |
| 0.082 | CSR13G823K* | 10 | A | 0.1 | 2 | 2337 | 2577 | 2817 | 3057 | 6162 | 7162 | 8162 |
| 0.10 | CSR13G104K* | 10 | A | 0.3 | 2 | 2338 | 2578 | 2818 | 3058 | 6164 | 7164 | 8164 |
| 0.10 | CSR13G104M* | 20 | A | 0.3 | 2 | 2339 | 2579 | 2819 | 3059 | 6165 | 7165 | 8165 |
| 0.12 | CSR13G124K* | 10 | A | 0.3 | 2 | 2340 | 2580 | 2820 | 3060 | 6167 | 7167 | 8167 |
| 0.15 | CSR13G154K* | 10 | A | 0.3 | 2 | 2341 | 2581 | 2821 | 3061 | 6169 | 7169 | 8169 |
| 0.15 | CSR13G154M* | 20 | A | 0.3 | 2 | 2342 | 2582 | 2822 | 3062 | 6170 | 7170 | 8170 |
| 0.18 | CSR13G184K* | 10 | A | 0.3 | 2 | 2343 | 2583 | 2823 | 3063 | 6172 | 7172 | 8172 |
| 0.22 | CSR13G224K* | 10 | A | 0.3 | 2 | 2344 | 2584 | 2824 | 3064 | 6174 | 7174 | 8174 |
| 0.22 | CSR13G224M* | 20 | A | 0.3 | 2 | 2345 | 2585 | 2825 | 3065 | 6175 | 7175 | 8175 |
| 0.27 | CSR13G274K* | 10 | A | 0.3 | 2 | 2346 | 2586 | 2826 | 3066 | 6177 | 7177 | 8177 |
| 0.33 | CSR13G334K* | 10 | A | 0.3 | 2 | 2347 | 2587 | 2827 | 3067 | 6179 | 7179 | 8179 |
| 0.33 | CSR13G334M* | 20 | A | 0.3 | 2 | 2348 | 2588 | 2828 | 3068 | 6180 | 7180 | 8180 |
| 0.39 | CSR13G394K* | 10 | A | 0.3 | 2 | 2349 | 2589 | 2829 | 3069 | 6182 | 7182 | 8182 |
| 0.47 | CSR13G474K* | 10 | A | 0.3 | 2 | 2350 | 2590 | 2830 | 3070 | 6184 | 7184 | 8184 |
| 0.47 | CSR13G474M* | 20 | A | 0.3 | 2 | 2351 | 2591 | 2831 | 3071 | 6185 | 7185 | 8185 |
| 0.56 | CSR13G564K* | 10 | A | 0.3 | 2 | 2352 | 2592 | 2832 | 3072 | 6187 | 7187 | 8187 |
| 0.68 | CSR13G684K* | 10 | A | 0.3 | 2 | 2353 | 2593 | 2833 | 3073 | 6189 | 7189 | 8189 |
| 0.68 | CSR13G684M* | 20 | A | 0.3 | 2 | 2354 | 2594 | 2834 | 3074 | 6190 | 7190 | 8190 |
| 0.82 | CSR13G824K* | 10 | A | 0.3 | 2 | 2355 | 2595 | 2835 | 3075 | 6192 | 7192 | 8192 |
| 1.00 | CSR13G105K* | 10 | A | 0.4 | 2 | 2356 | 2596 | 2836 | 3076 | 6194 | 7194 | 8194 |

* Failure rate level indicator
(M, P, R, S)

Type CSR13 (MIL-C-39003/01) Solid Tantalum Capacitors

Ratings

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| Cap (μF) | Catalog Part Number | Cap Tol. ± (%) | Case Code | Max DCL @ +25 °C (μA) | Max. DF @ +25 °C 120 Hz (%) | MIL-C-39003/1 (CSR13) Dash Numbers | | | | | | |
|---|------------------------|----------------------|--------------|--------------------------------|---|--|-----------------------|-----------------------|------------------------|--|-----------------------|------------------------|
| | | | | | | Exponential Failure Rate (% per 1000 hours) | | | | Weibull Failure Rate (% per 1000 hours) | | |
| | | | | | | 'M' Level (1.0) | 'P' Level (.10) | 'R' Level (.01) | 'S' Level (.001) | 'B' Level (.10) | 'C' Level (.01) | 'D' Level (.001) |
| 50 WVdc @ +85 °C — 33 WVdc @ +125 °C | | | | | | | | | | | | |
| 1 | CSR13G105M* | 20 | A | 0.4 | 2 | 2357 | 2597 | 2837 | 3077 | 6195 | 7195 | 8195 |
| 1.2 | CSR13G125K* | 10 | B | 0.4 | 4 | 2358 | 2598 | 2838 | 3078 | 6197 | 7197 | 8197 |
| 1.5 | CSR13G155K* | 10 | B | 0.5 | 4 | 2359 | 2599 | 2839 | 3079 | 6199 | 7199 | 8199 |
| 1.5 | CSR13G155M* | 20 | B | 0.5 | 4 | 2360 | 2600 | 2840 | 3080 | 6200 | 7200 | 8200 |
| 1.8 | CSR13G185K* | 10 | B | 0.5 | 4 | 2361 | 2601 | 2841 | 3081 | 6202 | 7202 | 8202 |
| 2.2 | CSR13G225K* | 10 | B | 0.8 | 4 | 2362 | 2602 | 2842 | 3082 | 6204 | 7204 | 8204 |
| 2.2 | CSR13G225M* | 20 | B | 0.8 | 4 | 2363 | 2603 | 2843 | 3083 | 6205 | 7205 | 8205 |
| 2.7 | CSR13G275K* | 10 | B | 0.8 | 4 | 2364 | 2604 | 2844 | 3084 | 6207 | 7207 | 8207 |
| 3.3 | CSR13G335K* | 10 | B | 1.2 | 4 | 2365 | 2605 | 2845 | 3085 | 6209 | 7209 | 8209 |
| 3.3 | CSR13G335M* | 20 | B | 1.2 | 4 | 2366 | 2606 | 2846 | 3086 | 6210 | 7210 | 8210 |
| 3.9 | CSR13G395K* | 10 | B | 1.5 | 4 | 2367 | 2607 | 2847 | 3087 | 6212 | 7212 | 8212 |
| 4.7 | CSR13G475K* | 10 | B | 1.7 | 4 | 2368 | 2608 | 2848 | 3088 | 6214 | 7214 | 8214 |
| 4.7 | CSR13G475M* | 20 | B | 1.7 | 4 | 2369 | 2609 | 2849 | 3089 | 6215 | 7215 | 8215 |
| 5.6 | CSR13G565K* | 10 | C | 2.2 | 4 | 2370 | 2610 | 2850 | 3090 | 6217 | 7217 | 8217 |
| 6.8 | CSR13G685K* | 10 | C | 2.2 | 4 | 2371 | 2611 | 2851 | 3091 | 6219 | 7219 | 8219 |
| 6.8 | CSR13G685M* | 20 | C | 2.2 | 4 | 2372 | 2612 | 2852 | 3092 | 6220 | 7220 | 8220 |
| 8.2 | CSR13G825K* | 10 | C | 2.5 | 4 | 2373 | 2613 | 2853 | 3093 | 6222 | 7222 | 8222 |
| 10 | CSR13G106K* | 10 | C | 2.5 | 4 | 2374 | 2614 | 2854 | 3094 | 6224 | 7224 | 8224 |
| 10 | CSR13G106M* | 20 | C | 2.5 | 4 | 2375 | 2615 | 2855 | 3095 | 6225 | 7225 | 8225 |
| 12 | CSR13G126K* | 10 | C | 0.3 | 4 | 2376 | 2616 | 2856 | 3096 | 6227 | 7227 | 8227 |
| 15 | CSR13G156K* | 10 | C | 4.0 | 4 | 2377 | 2617 | 2857 | 3097 | 6229 | 7229 | 8229 |
| 15 | CSR13G156M* | 20 | C | 4.0 | 4 | 2378 | 2618 | 2858 | 3098 | 6230 | 7230 | 8230 |
| 18 | CSR13G186K* | 10 | C | 4.5 | 4 | 2379 | 2619 | 2859 | 3099 | 6232 | 7232 | 8232 |
| 22 | CSR13G226K* | 10 | D | 5.5 | 4 | 2380 | 2620 | 2860 | 3100 | 6234 | 7234 | 8234 |
| 22 | CSR13G226M* | 20 | D | 5.5 | 4 | 2381 | 2621 | 2861 | 3101 | 6235 | 7235 | 8235 |
| 75 WVdc @ +85 °C — 50 WVdc @ +125 °C | | | | | | | | | | | | |
| 0.10 | CSR13H104K* | 10 | A | 0.3 | 2 | 2382 | 2622 | 2862 | 3102 | 6237 | 7237 | 8237 |
| 0.10 | CSR13H104M* | 20 | A | 0.3 | 2 | 2383 | 2623 | 2863 | 3103 | 6238 | 7238 | 8238 |
| 0.12 | CSR13H124K* | 10 | A | 0.3 | 2 | 2384 | 2624 | 2864 | 3104 | 6240 | 7240 | 8240 |
| 0.15 | CSR13H154K* | 10 | A | 0.3 | 2 | 2385 | 2625 | 2865 | 3105 | 6242 | 7242 | 8242 |
| 0.15 | CSR13H154M* | 20 | A | 0.3 | 2 | 2386 | 2626 | 2866 | 3106 | 6243 | 7243 | 8243 |
| 0.18 | CSR13H184K* | 10 | A | 0.3 | 2 | 2387 | 2627 | 2867 | 3107 | 6245 | 7245 | 8245 |
| 0.22 | CSR13H224K* | 10 | A | 0.3 | 2 | 2388 | 2628 | 2868 | 3108 | 6247 | 7247 | 8247 |
| 0.22 | CSR13H224M* | 20 | A | 0.3 | 2 | 2389 | 2629 | 2869 | 3109 | 6248 | 7248 | 8248 |
| 0.27 | CSR13H274K* | 10 | A | 0.3 | 2 | 2390 | 2630 | 2870 | 3110 | 6250 | 7250 | 8250 |
| 0.33 | CSR13H334K* | 10 | A | 0.3 | 2 | 2391 | 2631 | 2871 | 3111 | 6252 | 7252 | 8252 |
| 0.33 | CSR13H334M* | 20 | A | 0.3 | 2 | 2392 | 2632 | 2872 | 3112 | 6253 | 7253 | 8253 |
| 0.39 | CSR13H394K* | 10 | A | 0.3 | 2 | 2393 | 2633 | 2873 | 3113 | 6255 | 7255 | 8255 |
| 0.47 | CSR13H474K* | 10 | A | 0.3 | 2 | 2394 | 2634 | 2874 | 3114 | 6257 | 7257 | 8257 |
| 0.47 | CSR13H474M* | 20 | A | 0.3 | 2 | 2395 | 2635 | 2875 | 3115 | 6258 | 7258 | 8258 |
| 0.68 | CSR13H684M* | 20 | A | 0.3 | 2 | 2398 | 2638 | 2878 | 3118 | 6263 | 7263 | 8263 |

* Failure rate level indicator
(M, P, R, S)

Type CSR13 (MIL-C-39003/01) Solid Tantalum Capacitors

Ratings

[查询"CSR13C475K"供应商](#)

| Cap Cap (μ F) | Catalog Part Number | Cap Tol. \pm (%) | Case Code | Max DCL @ +25 °C (μ A) | Max. DF @ +25 °C 120 Hz (%) | MIL-C-39003/1 (CSR13) Dash Numbers | | | | | | |
|--|------------------------|--------------------------|--------------|--------------------------------------|---|--|-----------------------|-----------------------|------------------------|--|-----------------------|------------------------|
| | | | | | | Exponential Failure Rate (% per 1000 hours) | | | | Weibull Failure Rate (% per 1000 hours) | | |
| | | | | | | 'M' Level (1.0) | 'P' Level (.10) | 'R' Level (.01) | 'S' Level (.001) | 'B' Level (.10) | 'C' Level (.01) | 'D' Level (.001) |
| 75 WVdc @ +85 °C — 50 WVdc @ +125 °C | | | | | | | | | | | | |
| 0.56 | CSR13H564K* | 10 | A | 0.3 | 2 | 2396 | 2636 | 2876 | 3116 | 6260 | 7260 | 8260 |
| 0.68 | CSR13H684K* | 10 | A | 0.3 | 2 | 2397 | 2637 | 2877 | 3117 | 6262 | 7262 | 8262 |
| 0.82 | CSR13H824K* | 10 | B | 0.3 | 2 | 2399 | 2639 | 2879 | 3119 | 6265 | 7265 | 8265 |
| 1.0 | CSR13H105K* | 10 | B | 0.3 | 2 | 2400 | 2640 | 2880 | 3120 | 6267 | 7267 | 8267 |
| 1.0 | CSR13H105M* | 20 | B | 0.3 | 2 | 2401 | 2641 | 2881 | 3121 | 6268 | 7268 | 8268 |
| 1.2 | CSR13H125K* | 10 | B | 0.3 | 4 | 2402 | 2642 | 2882 | 3122 | 6270 | 7270 | 8270 |
| 1.5 | CSR13H155K* | 10 | B | 0.6 | 4 | 2403 | 2643 | 2883 | 3123 | 6272 | 7272 | 8272 |
| 1.5 | CSR13H155M* | 20 | B | 0.6 | 4 | 2404 | 2644 | 2884 | 3124 | 6273 | 7273 | 8273 |
| 1.8 | CSR13H185K* | 10 | B | 0.7 | 4 | 2405 | 2645 | 2885 | 3125 | 6275 | 7275 | 8275 |
| 2.2 | CSR13H225K* | 10 | B | 0.8 | 4 | 2406 | 2646 | 2886 | 3126 | 6277 | 7277 | 8277 |
| 2.2 | CSR13H225M* | 20 | B | 0.8 | 4 | 2407 | 2647 | 2887 | 3127 | 6278 | 7278 | 8278 |
| 2.7 | CSR13H275K* | 10 | B | 1.0 | 4 | 2408 | 2648 | 2888 | 3128 | 6280 | 7280 | 8280 |
| 3.3 | CSR13H335K* | 10 | B | 1.2 | 4 | 2409 | 2649 | 2889 | 3129 | 6282 | 7282 | 8282 |
| 3.3 | CSR13H335M* | 20 | B | 1.2 | 4 | 2410 | 2650 | 2890 | 3130 | 6283 | 7283 | 8283 |
| 3.9 | CSR13H395K* | 10 | B | 1.5 | 4 | 2411 | 2651 | 2891 | 3131 | 6285 | 7285 | 8285 |
| 4.7 | CSR13H475K* | 10 | C | 3 | 4 | 2412 | 2652 | 2892 | 3132 | 6287 | 7287 | 8287 |
| 4.7 | CSR13H475M* | 20 | C | 3 | 4 | 2413 | 2653 | 2893 | 3133 | 6288 | 7288 | 8288 |
| 5.6 | CSR13H565K* | 10 | C | 3 | 4 | 2414 | 2654 | 2894 | 3134 | 6290 | 7290 | 8290 |
| 6.8 | CSR13H685K* | 10 | C | 5 | 4 | 2415 | 2655 | 2895 | 3135 | 6292 | 7292 | 8292 |
| 6.8 | CSR13H685M* | 20 | C | 5 | 4 | 2416 | 2656 | 2896 | 3136 | 6293 | 7293 | 8293 |
| 8.2 | CSR13H825K* | 10 | C | 5 | 4 | 2417 | 2657 | 2897 | 3137 | 6295 | 7295 | 8295 |
| 10 | CSR13H106K* | 10 | C | 5 | 4 | 2418 | 2658 | 2898 | 3138 | 6297 | 7297 | 8297 |
| 10 | CSR13H106M* | 20 | C | 5 | 4 | 2419 | 2659 | 2899 | 3139 | 6298 | 7298 | 8298 |
| 12 | CSR13H126K* | 10 | D | 5 | 4 | 2420 | 2660 | 2900 | 3140 | 6300 | 7300 | 8300 |
| 15 | CSR13H156K* | 10 | D | 7 | 4 | 2421 | 2661 | 2901 | 3141 | 6302 | 7302 | 8302 |
| 15 | CSR13H156M* | 20 | D | 7 | 4 | 2422 | 2662 | 2902 | 3142 | 6303 | 7303 | 8303 |
| 100 WVdc @ +85 °C — 67 WVdc @ +125 °C | | | | | | | | | | | | |
| 0.0047 | CSR13J472K* | 10 | A | 0.3 | 2 | 2423 | 2663 | 2903 | 3143 | 6305 | 7305 | +8305 |
| 0.0047 | CSR13J472M* | 20 | A | 0.3 | 2 | 2424 | 2664 | 2904 | 3144 | 6306 | 7306 | +8306 |
| 0.0056 | CSR13J562K* | 10 | A | 0.3 | 2 | 2425 | 2665 | 2905 | 3145 | 6308 | 7308 | +8308 |
| 0.0068 | CSR13J682K* | 10 | A | 0.3 | 2 | 2426 | 2666 | 2906 | 3146 | 6310 | 7310 | +8310 |
| 0.0068 | CSR13J682M* | 20 | A | 0.3 | 2 | 2427 | 2667 | 2907 | 3147 | 6311 | 7311 | +8311 |
| 0.0082 | CSR13J822K* | 10 | A | 0.3 | 2 | 2428 | 2668 | 2908 | 3148 | 6313 | 7313 | +8313 |
| 0.010 | CSR13J103K* | 10 | A | 0.3 | 2 | 2429 | 2669 | 2909 | 3149 | 6315 | 7315 | +8315 |
| 0.010 | CSR13J103M* | 20 | A | 0.3 | 2 | 2430 | 2670 | 2910 | 3150 | 6316 | 7316 | +8316 |
| 0.012 | CSR13J123K* | 10 | A | 0.3 | 2 | 2431 | 2671 | 2911 | 3151 | 6318 | 7318 | +8318 |

+ C failure rate: Not QPL for +7390 thru +7401

+ D failure rate: Not QPL for +8305 thru +8401

* Failure rate level indicator
(M, P, R, S)

Type CSR13 (MIL-C-39003/01) Solid Tantalum Capacitors

Ratings

[查询"CSR13C475K"供应商](#)

| Cap (μ F) | Catalog Part Number | Cap Tol. \pm (%) | Case Code | Max DCL @ +25 °C (μ A) | Max. DF @ +25 °C 120 Hz (%) | MIL-C-39003/1 (CSR13) Dash Numbers | | | | | | |
|-------------------|------------------------|--------------------------|--------------|--------------------------------------|---|--|-----------------------|-----------------------|------------------------|--|-----------------------|------------------------|
| | | | | | | Exponential Failure Rate (% per 1000 hours) | | | | Weibull Failure Rate (% per 1000 hours) | | |
| | | | | | | 'M' Level (1.0) | 'P' Level (.10) | 'R' Level (.01) | 'S' Level (.001) | 'B' Level (.10) | 'C' Level (.01) | 'D' Level (.001) |
| | | | | | | 100 WVdc @ +85 °C — 67 WVdc @ +125 °C | | | | | | |
| 0.015 | CSR13J153K* | 10 | A | 0.3 | 2 | 2432 | 2672 | 2912 | 3152 | 6320 | 7320 | +8320 |
| 0.015 | CSR13J153M* | 20 | A | 0.3 | 2 | 2433 | 2673 | 2913 | 3153 | 6321 | 7321 | +8321 |
| 0.018 | CSR13J183K* | 10 | A | 0.3 | 2 | 2434 | 2674 | 2914 | 3154 | 6323 | 7323 | +8323 |
| 0.022 | CSR13J223K* | 10 | A | 0.3 | 2 | 2435 | 2675 | 2915 | 3155 | 6325 | 7325 | +8325 |
| 0.022 | CSR13J223M* | 20 | A | 0.3 | 2 | 2436 | 2676 | 2916 | 3156 | 6326 | 7326 | +8326 |
| 0.27 | CSR13J274K* | 10 | A | 0.3 | 2 | 2455 | 2695 | 2935 | 3175 | 6358 | 7358 | +8358 |
| 0.33 | CSR13J334K* | 10 | A | 0.3 | 2 | 2456 | 2696 | 2936 | 3176 | 6360 | 7360 | +8360 |
| 0.33 | CSR13J334M* | 20 | A | 0.3 | 2 | 2457 | 2697 | 2937 | 3177 | 6361 | 7361 | +8361 |
| 0.39 | CSR13J394K* | 10 | A | 0.3 | 2 | 2458 | 2698 | 2938 | 3178 | 6363 | 7363 | +8363 |
| 0.47 | CSR13J474K* | 10 | A | 0.3 | 2 | 2459 | 2699 | 2939 | 3179 | 6365 | 7365 | +8365 |
| 0.47 | CSR13J474M* | 20 | A | 0.3 | 2 | 2460 | 2700 | 2940 | 3180 | 6366 | 7366 | +8366 |
| 0.56 | CSR13J564K* | 10 | A | 0.3 | 2 | 2461 | 2701 | 2941 | 3181 | 6368 | 7368 | +8368 |
| 0.68 | CSR13J684K* | 10 | B | 0.3 | 2 | 2462 | 2702 | 2942 | 3182 | 6370 | 7370 | +8370 |
| 0.68 | CSR13J684M* | 20 | B | 0.3 | 2 | 2463 | 2703 | 2943 | 3183 | 6371 | 7371 | +8371 |
| 0.82 | CSR13J824K* | 10 | B | 0.4 | 2 | 2464 | 2704 | 2944 | 3184 | 6373 | 7373 | +8373 |
| 1.0 | CSR13J105K* | 10 | B | 0.5 | 2 | 2465 | 2705 | 2945 | 3185 | 6375 | 7375 | +8375 |
| 1.0 | CSR13J105M* | 20 | B | 0.5 | 2 | 2466 | 2706 | 2946 | 3186 | 6376 | 7376 | +8376 |
| 1.2 | CSR13J125K* | 10 | B | 0.5 | 3 | 2467 | 2707 | 2947 | 3187 | 6378 | 7378 | +8378 |
| 1.5 | CSR13J155K* | 10 | B | 0.7 | 3 | 2468 | 2708 | 2948 | 3188 | 6380 | 7380 | +8380 |
| 1.5 | CSR13J155M* | 20 | B | 0.7 | 3 | 2469 | 2709 | 2949 | 3189 | 6381 | 7381 | +8381 |
| 1.8 | CSR13J185K* | 10 | B | 0.7 | 3 | 2470 | 2710 | 2950 | 3190 | 6383 | 7383 | +8383 |
| 2.2 | CSR13J225K* | 10 | B | 0.9 | 3 | 2471 | 2711 | 2951 | 3191 | 6385 | 7385 | +8385 |
| 2.2 | CSR13J225M* | 20 | B | 0.9 | 3 | 2472 | 2712 | 2952 | 3192 | 6386 | 7386 | +8386 |
| 2.7 | CSR13J275K* | 10 | B | 1.1 | 3 | 2473 | 2713 | 2953 | 3193 | 6388 | 7388 | +8388 |
| 3.3 | CSR13J335K* | 10 | C | 1.5 | 3 | 5157 | 5357 | 5557 | 5757 | 6390 | +7390 | +8390 |
| 3.3 | CSR13J335M* | 20 | C | 1.5 | 3 | 5158 | 5358 | 5558 | 5758 | 6391 | +7391 | +8391 |
| 3.9 | CSR13J395K* | 10 | C | 1.5 | 3 | 5160 | 5360 | 5560 | 5760 | 6393 | +7393 | +8393 |
| 4.7 | CSR13J475K* | 10 | C | 2.5 | 3 | 5162 | 5362 | 5562 | 5762 | 6395 | +7395 | +8395 |
| 4.7 | CSR13J475M* | 20 | C | 2.5 | 3 | 5163 | 5363 | 5563 | 5763 | 6396 | +7396 | +8396 |
| 5.6 | CSR13J565K* | 10 | C | 2.5 | 3 | 5165 | 5365 | 5565 | 5765 | 6398 | +7398 | +8398 |
| 6.8 | CSR13J685K* | 10 | C | 2.5 | 3 | 5167 | 5367 | 5567 | 5767 | 6400 | +7400 | +8400 |
| 6.8 | CSR13J685M* | 20 | C | 2.5 | 3 | 5168 | 5368 | 5568 | 5768 | 6401 | +7401 | +8401 |

+ C failure rate: Not QPL for +7390 thru +7401

+ D failure rate: Not QPL for +8305 thru +8401

* Failure rate level indicator
(M, P, R, S)