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for defense

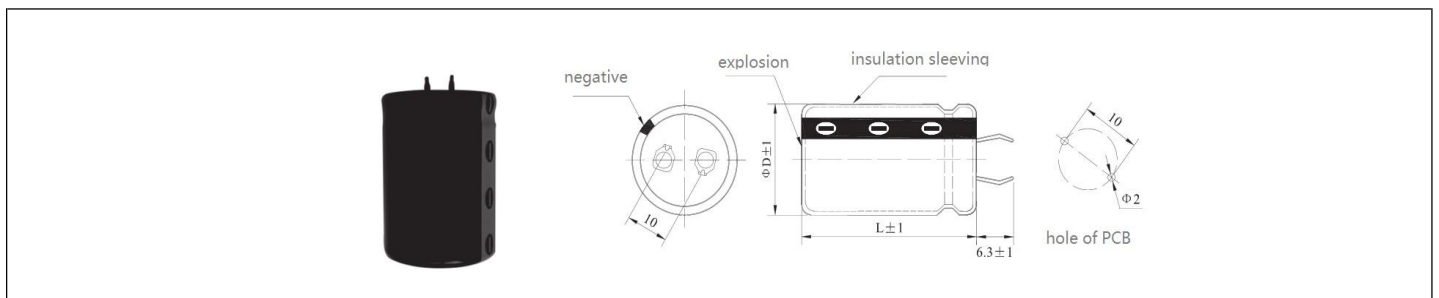


- There are reliability indicators, and there are five levels of failure rate ($\lambda \leq 1 \times 10^{-5}$)
 - It meets the environmental requirements of vibration, low pressure, humidity resistance and other environmental requirements of the national military standard GJB603-88
 - It is suitable for filtering, coupling and bypassing in electronic circuits in aerospace, aviation, alpine, high altitude and ocean
- Main technical parameters:

Item	characteristic																																
Operating temperature range	-55°C ~ +105°C																																
Rated voltage range	10V ~ 500V																																
Nominal capacitance range	47μF ~ 68000μF																																
Allowable deviation of nominal capacitance (25°C, 100Hz)	M (±20%)																																
DC leakage current (25°C, 5min)	$I \leq 0.02 C_R U_R$ (μA) C_R : Nominal capacitance (μF) ; U_R : Rated voltage (V)																																
Dissipation factor tgδ (25°C, 100Hz)	<table border="1"> <tr> <th>U_R (V)</th> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>80</td> <td>100</td> <td>160~450</td> <td>500</td> </tr> <tr> <th>tgδ (≤)</th> <td>0.20</td> <td>0.18</td> <td>0.15</td> <td>0.12</td> <td>0.10</td> <td>0.10</td> <td>0.10</td> <td>0.10</td> <td>0.15</td> <td>0.20</td> </tr> </table>	U_R (V)	10	16	25	35	50	63	80	100	160~450	500	tgδ (≤)	0.20	0.18	0.15	0.12	0.10	0.10	0.10	0.10	0.15	0.20	Products with capacities greater than 1500μF, Each increase 1000μF, The dissipation factor increases 0.02.									
	U_R (V)	10	16	25	35	50	63	80	100	160~450	500																						
tgδ (≤)	0.20	0.18	0.15	0.12	0.10	0.10	0.10	0.10	0.15	0.20																							
Temperature Characteristics (100Hz)		Impedance ratio	$Z_{-55^\circ\text{C}}/Z_{+25^\circ\text{C}} \leq 15$																														
		Rate of change in capacitance	$(C_{+25^\circ\text{C}} - C_{-55^\circ\text{C}}) / C_{+25^\circ\text{C}} \leq 20\%$ (≤40% (500V)) $(C_{+25^\circ\text{C}} - C_{-40^\circ\text{C}}) / C_{+25^\circ\text{C}} \leq 10\%$ (≤20% (500V))																														
durability		The rated voltage with ripple current is applied at 105°C for 2000h, and after recovery for 24h, the rated voltage with ripple current is tested at room temperature (25°C±5°C), and its electrical performance is in accordance with the test :																															
		Rate of change in capacitance	≤±15% Initial measurements																														
		The dissipation factor tgδ	≤150% Initial prescriptive value																														
		DC leakage current	≤Initial prescriptive value																														
Store at high temperatures		After being left at 105 °C for 500h and recovered for 24 hours, the electrical performance was tested at room temperature (25 °C±5 °C). :																															
		Rate of change in capacitance	≤±15% Initial measurements																														
		The loss angle tangent tgδ	≤200% Initial prescriptive value																														
		DC leakage current	≤200% Initial prescriptive value																														

Execution standard number: ZZR—Q/MN20085—2015 and GJB603A—2011

Outline drawings and size charts (mm)




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List of product specifications and technical parameters

U _s (V) C _R (μF)	10 1A		16 1C		25 1E		35 1V		50 1H	
	DxL (mm)	I~ (mA)	DxL (mm)	I~ (mA)	DxL (mm)	I~ (mA)	DxL (mm)	I~ (mA)	DxL (mm)	I~ (mA)
1200									22×35	800
									25×25	800
1500							22×35	850	22×40	1120
									25×30	1120
2200					22×30	950	22×40	970	22×45	1360
					25×25	950	25×25	970	25×35	1360
3300					25×30	1250	22×45	1380	22×50	1850
							25×30	1380	25×40	1850
									30×30	1850
4700	22×30	750	22×25	1300	30×25	1550	22×50	1850	25×45	2400
	25×25	750					25×35	1850	30×35	2400
									35×25	2400
5600			22×30	1420	30×30	1710	25×40	2140	30×40	2780
					35×25	1710	30×30	2140	35×35	2780
							35×25	2140		
6800	22×40	1120	22×35	1680	30×35	1850	25×45	2320	30×45	3240
	25×35	1120	25×25	1680	35×30	1850	30×35	2320	35×40	3240
							35×30	2320		
8200	22×45	1320			30×40	2100	30×40	2670	30×50	3570
	25×40	1320	22×40	1850	35×35	2100	35×35	2670	35×45	3570
			25×30	1850						
10000	22×50	1450	25×35	1920	30×45	2540	30×45	2850	35×50	3850
	25×45	1450	30×30	1920	35×40	2540	35×40	2850		
12000	30×40	1670	25×45	2180	30×50	2750	35×45	3210	35×60	4210
	35×25	1670	30×35	2180	35×45	2750				
			35×30	2180						
15000	30×35	1950	25×50	2430	35×50	2950	35×50	3500		
	35×30	1950	30×40	2430						
			35×35	2430						
18000							35×60	4350		
22000	30×40	2480	30×45	3220	35×60	3900				
	35×35	2480	35×40	3220						
27000			30×50	3650						
			35×45	3650						
33000	30×45	3300	35×50	4100						
	35×40	3300								
47000	30×50	3800	35×60	4800						
	35×45	3800								
56000	35×50	4400								
68000	35×60	4800								

 Rated ripple current (105°C, 100Hz)

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■ List of product specifications and technical parameters

C _a (μF) U _s (V)	63 1J		80 1K		100 2A		160 2C		200 2D	
	DxL (mm)	I~ (mA)	DxL (mm)	I~ (mA)	DxL (mm)	I~ (mA)	DxL (mm)	I~ (mA)	DxL (mm)	I~ (mA)
150									22×25	480
220							22×25	610	22×30	740
330							22×35	740	25×35	930
470					22×25	770	25×35	860	25×40	1140
560			22×25	520	22×30	900	30×35	1100	30×40	1350
680	22×25	520	25×25	750	22×35	970	30×40	1270	30×45	1510
820	22×30	720	25×30	890	22×40	1180	30×45	1440	30×50	1640
					25×30	1180	35×35	1440	35×40	1640
1000	22×35	810	25×35	1050	22×45	1340	30×50	1720	35×45	1710
					25×35	1340	35×40	1720		
1200			25×40	1300	25×40	1600	35×45	1850		
			30×35	1300	30×35	1600				
1500	25×45	1200	30×40	1520	30×40	2100	35×50	2140	35×50	2300
	30×30	1200	35×30	1520	35×35	2100				
1800									35×60	2440
2200	25×50	1550	30×45	1880	30×50	2550	35×60	2400	35×70	2770
	30×35	1550	35×35	1880	35×40	2550				
	35×25	1550								
3300	30×40	2150	35×40	2450	35×45	3200				
	35×30	2150								
3900					35×50	3600				
4700	30×45	2800	30×50	3300	35×60	3900				
	35×35	2800	35×45	3300						
5600	30×50	2980	35×50	3700						
	35×40	2980								
6800	35×45	3250	35×60	4100						
8200	35×50	3650								
10000	35×60	4120								

→ Rated ripple current (105°C, 100Hz)

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List of product specifications and technical parameters

U _s (V) C _s (μF)	250 2E		350 2V		400 2G		450 2W		500 2H	
	DxL (mm)	I~ (mA)	DxL (mm)	I~ (mA)	DxL (mm)	I~ (mA)	DxL (mm)	I~ (mA)	DxL (mm)	I~ (mA)
47					25×25	210	22×30	270	25×35	240
									30×30	240
56					25×25	280	25×30	310	25×40	280
									30×35	280
68					25×30	340	25×35	380	25×45	340
									30×40	340
82					25×35	390	25×40	450	25×50	410
					30×30	390	30×30	450	30×45	410
100					25×40	420	25×45	540	30×50	460
					30×30	420	30×35	540	35×40	460
150	22×35	410	22×40	630	25×45	550	25×50	710	35×45	550
	25×30	410	25×35	630	30×35	550	30×40	710		
							35×35	710		
220	22×40	640	22×45	750	30×45	620	30×50	950	35×50	650
	25×35	640	25×40	750	35×40	620	35×40	950		
	30×30	640	30×35	750						
270								35×60	820	
330	25×40	710	25×45	820			35×50	1280		
	30×35	710	30×40	820						
			35×35	820						
470	25×50	850	30×50	1040			35×60	1640		
	30×40	850	35×40	1040						
	35×35	850								
560	30×45	1150	35×45	1210						
	35×40	1150								
680	30×50	1370	35×50	1460						
	35×45	1370								
820	35×50	1520	35×60	1550						
1000	35×60	1740								
1500	35×70	1850								

→ Rated ripple current (105°C, 100Hz)

Part number example

CADAA 478 M 2A 350600
 series capacitance tolerance voltage dimension