

CAEAB

for defense



- There are reliability indicators, and the five-level failure rate ($\lambda \leq 1 \times 10^{-5}$).
- It meets the environmental requirements of GJB603A-2011 such as vibration, low air pressure and humidity resistance.
- It is suitable for energy storage and filtering in electronic circuits in aerospace, aviation, alpine, high altitude and ocean.
- Main technical parameters:

item	characteristic					
Operating temperature range	-55℃~+105℃					
Rated voltage range	10V~450V					
Nominal capacitance range	470μF-2200000μF					
Allowable deviation of nominal capacitance (25℃, 100Hz)	M (±20%)					
DC leakage current (25℃, 5min)	≤0.01C _R U _R (μA) or 15mA (whichever is less) C _R : Nominal capacitance (μF); U _R : Rated voltage (V)					
Loss tangent tgδ (max) (25℃, 100Hz)	For details, please refer to the "List of Product Specifications and Technical Parameters"					
Temperature Characteristics (100Hz) (Impedance Ratio)	U _R (V)	10~16	25~100	160~250	350~450	
	Z _{-55℃} /Z _{+25℃}	≤5	≤4	≤10	≤12	
Rated ripple current (100Hz, 105℃)	For details, please refer to the "List of Product Specifications and Technical Parameters"					
durability	The rated voltage with ripple current is applied at 105℃ for 2000h, and after recovery for 24h, the test is carried out at room temperature (25℃±5℃), and its electrical performance conforms to:					
	Rate of change in capacitance		≤± 20% of the initial measurement			
	Loss tangent tgδ		≤ 200% of the initial specified value			
	DC leakage current		≤ initial prescriptive value			
Store at high temperatures	After being left at 105℃ for 500h and recovered for 24h, the electrical performance of the electrical performance is tested at room temperature (25±5℃).					
	Rate of change in capacitance		≤± 20% of the initial measurement			
	Loss tangent tgδ		≤ 200% of the initial specified value			
	DC leakage current		≤ 200% of the initial specified value			

Execution standard number: Q/MN20087—2017 and GJB603A—2011

Outline drawing and size table (mm)

D	F ±1.0	Hexagon screws	The maximum torque is N.m
35	13	M5×10	1.13
51	20		
63.5	25		
76	30		
90	32		

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List of product specifications and technical parameters

Rated voltage (V)	capacity (μF)	Dimensions D×L (mm)	tgδ (120Hz)	Ripple current (A,rms)
10 1A	100000	35×80	0.8	7.5
	150000	50×60	1	9.8
	220000	50×80	1.2	12.2
	330000	50×100	1.4	14.8
	470000	63.5×100	1.8	16
	680000	63.5×120	1.8	17.4
	1000000	75×140	2.1	19.5
	1500000	90×150	2.5	21.1
	2200000	90×200	2.8	22.4
16 1C	47000	35×60	0.6	5.7
	68000	35×80	0.6	6.1
	100000	50×60	0.8	8.7
	150000	50×80	0.8	10.2
	220000	50×100	1.2	13
	330000	63.5×100	1.5	19.5
	470000	63.5×120	1.8	20.4
	680000	75×120	2	22
	1000000	75×180	2.2	25.1
25 1E	33000	35×60	0.5	5.4
	47000	35×80	0.5	7.7
	68000	50×60	0.6	9.4
	100000	50×80	0.6	10.5
	150000	63.5×80	0.8	12.8
	220000	63.5×100	0.8	16
	330000	75×120	1.2	18.8
	470000	75×140	1.2	19.4
	680000	90×150	1.5	21
35 1V	1000000	90×200	1.8	24.2
	15000	35×60	0.4	4.1
	22000	35×80	0.4	5.2
	33000	50×60	0.5	6.8
	47000	50×80	0.5	7.4
	68000	50×100	0.6	12.1
35 1V	100000	63.5×100	0.7	12.6

Rated voltage (V)	capacity (μF)	Dimensions D×L (mm)	tgδ (120Hz)	Ripple current (A,rms)
35 1V	150000	63.5×120	0.7	14.1
	220000	75×120	0.8	16.4
	330000	75×170	0.8	20.2
	470000	90×150	1	23.4
	680000	90×200	1.2	26.5
50 1H	15000	35×80	0.3	5.2
	22000	35×100	0.35	6.1
	33000	50×80	0.4	7.4
	47000	50×90	0.4	9.5
	68000	50×100	0.5	11.7
	100000	63.5×100	0.5	15.8
	150000	75×120	0.5	17.5
	220000	75×140	0.6	21
	330000	90×150	0.6	23.3
63 1J	470000	90×200	0.6	25.1
	10000	35×80	0.25	4.6
	15000	35×100	0.3	5.5
	22000	50×80	0.4	6.7
	33000	50×100	0.4	9.1
	47000	63.5×80	0.5	11.2
	68000	63.5×100	0.5	12.5
	100000	75×120	0.5	16.8
	150000	75×140	0.5	20.1
100 2A	220000	90×150	0.5	22.7
	330000	90×200	0.5	24.1
	3300	35×60	0.2	3.2
	4700	35×80	0.2	3.5
	6800	35×100	0.25	5.1
	10000	50×80	0.25	6.5
	15000	50×100	0.3	7.5
	22000	63.5×100	0.35	9.6
	33000	63.5×120	0.35	11.7
100 2A	47000	75×120	0.4	16
	68000	75×160	0.4	17.2
	100000	90×150	0.5	19.6

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List of product specifications and technical parameters

Rated voltage (V)	capacity (μF)	Dimensions D×L (mm)	tgδ (120Hz)	Ripple current (A,rms)
160 2C	1500	35×60	0.2	2.1
	2200	35×80	0.2	2.7
	3300	50×80	0.2	3.8
	4700	50×100	0.2	4.5
	6800	50×120	0.25	6.8
	10000	63.5×100	0.25	7.8
	15000	63.5×120	0.3	9.8
	22000	75×120	0.3	12.5
	33000	75×160	0.3	13.4
	47000	90×170	0.3	17.2
	68000	90×220	0.3	19.2
200 2D	1500	35×80	0.2	2.2
	2200	35×100	0.2	2.9
	3300	50×80	0.2	4.1
	4700	50×100	0.2	5.8
	6800	63.5×110	0.2	6.8
	10000	63.5×120	0.25	9.2
	15000	75×120	0.25	11.5
	22000	75×160	0.25	13.7
	33000	90×170	0.25	16.5
	47000	90×220	0.25	18.2
250 2E	1000	35×80	0.2	2.1
	1500	35×100	0.2	2.5
	2200	50×80	0.2	3.2
	3300	50×100	0.2	4.3
	4700	50×120	0.2	5.9
	6800	63.5×100	0.2	7.1
	10000	75×120	0.25	9.6
	15000	75×140	0.25	12.7
	22000	90×150	0.25	15.4
	33000	90×200	0.25	17

Rated voltage (V)	capacity (μF)	Dimensions D×L (mm)	tgδ (120Hz)	Ripple current (A,rms)
350 2V	680	35×80	0.2	3.2
	1000	35×100	0.2	4.8
	1500	50×80	0.2	6.5
	2200	50×100	0.2	8.2
	3300	63.5×100	0.2	11.8
	4700	63.5×120	0.25	13.8
	6800	75×120	0.25	19.2
	10000	75×180	0.3	25.1
	15000	90×140	0.3	30.4
	22000	90×200	0.3	34.7
400 2G	470	35×60	0.2	2.5
	680	35×80	0.2	3.5
	1000	50×80	0.2	4.6
	1500	50×100	0.2	6.4
	2200	63.5×100	0.2	8.7
	3300	63.5×120	0.2	11.6
	4700	75×120	0.2	13.8
	6800	75×160	0.25	18.4
	10000	90×170	0.25	23.2
	15000	90×250	0.25	26.5
450 2W	470	35×80	0.2	3.2
	680	50×80	0.2	3.6
	1000	50×100	0.2	4.8
	1500	50×120	0.2	5.9
	2200	63.5×120	0.2	8.7
	3300	75×120	0.2	11.5
	4700	75×150	0.25	14.1
	6800	90×170	0.25	19.5
	10000	90×200	0.25	22.7

Part number example

CAAAB 478 M 2A 350800
series capacitance tolerance voltage dimension