

CABAF 150℃

for defense



- 150℃ series, high heat resistance.
- Low ESR, high frequency and low impedance.
- Military products meet environmental requirements such as vibration and low air pressure. It can be supplied according to the "seven specialty" level, and can also be supplied according to the "general military" level.
- It is suitable for energy storage, filtering and bypass in electronic circuits in aerospace, aviation, cold, high altitude and ocean.

Main technical indicators

item	character								
Operating temperature range	-55℃~+150℃								
Rated operating voltage range	16V~63V								
Nominal capacitance range	27μF~1000μF								
Allowable deviation of nominal capacitance	M (±20%) (25℃, 120Hz)								
DC leakage current <sup>*1</sup>	1≤0.01C <sub>R</sub> U <sub>R</sub> (μA) (25℃, 2min) C <sub>R</sub> : Nominal capacitance (μF) ; U <sub>R</sub> : Rated voltage (V)								
Loss tangent tgδ (max)	Comment on "List of Product Specifications and Technical Parameters" (25℃, 120Hz)								
ESR (Max) <sup>*2</sup>	For details, please refer to the "List of Product Specifications and Technical Parameters" (25℃, 100KHz)								
Durability High Temperature Test	<div>The rated voltage is applied at 150℃ for 2000h, and after recovery for 24h, it is often suitable (25℃±5℃) test, and its electrical performance is in line with it:<table><tr><td>Rate of change in capacitance</td><td>≤± 20% of the initial measurement</td></tr><tr><td>DC leakage current</td><td>≤ initial prescriptive value</td></tr><tr><td>The loss angle is tangent</td><td>≤ 200% of the initial measurement</td></tr><tr><td>ESR</td><td>≤ 200% of the initial measurement</td></tr></table></div>	Rate of change in capacitance	≤± 20% of the initial measurement	DC leakage current	≤ initial prescriptive value	The loss angle is tangent	≤ 200% of the initial measurement	ESR	≤ 200% of the initial measurement
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DC leakage current	≤ initial prescriptive value								
The loss angle is tangent	≤ 200% of the initial measurement								
ESR	≤ 200% of the initial measurement								
Store at high temperatures	<div>It was stored at 150 °C for 500 hours, recovered for 24 hours, and tested at room temperature (20 °C±5 °C), and its electrical properties were in line with it:<table><tr><td>Rate of change in capacitance</td><td>≤± 10% of the initial measurement</td></tr><tr><td>DC leakage current</td><td>≤ 200% of the initial specified value</td></tr><tr><td>The loss angle is tangent</td><td>≤ initial measurements</td></tr><tr><td>ESR:</td><td>≤ 200% of the initial measurement</td></tr></table></div>	Rate of change in capacitance	≤± 10% of the initial measurement	DC leakage current	≤ 200% of the initial specified value	The loss angle is tangent	≤ initial measurements	ESR:	≤ 200% of the initial measurement
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Executive standard number: Q/MN60031-2023 Seventh special standard number: QZJ840634  
Note: \*1 1KΩ protection resistor in series during testing and charging; The \*2 test location is the root of the capacitor lead terminal.

Outline drawing and size table (mm)

Standards: (size: φ8×8~φ10×12.3)

Vibration-resistant products: (size: φ8×10~φ10×12.3)

D×L	D	L	A	B	C	E	H
8×8	8	8	2.9	8.3	8.3	3.2	0.8~1.1
8×10	8	10	2.9	8.3	8.3	3.2	0.8~1.1
8×11.7	8	11.7	2.9	8.3	8.3	3.2	0.8~1.1
10×10	10	10	3.2	10.3	10.3	4.6	0.8~1.1
10×12.3	10	12.3	3.2	10.3	10.3	4.6	0.8~1.1

## CABAF 150°C

## ■ Parameters sheet

rated voltage/V	Cap $\mu$ F	Dimension D×L (mm)	tg $\delta$ 120Hz	ESR $m\Omega$ , 25°C 100kHz	Ripple current mA, rms 100KH, 150°C	rated voltage/V	Cap $\mu$ F	Dimension D×L (mm)	tg $\delta$ 120Hz	ESR $m\Omega$ , 25°C 100kHz	Ripple current mA, rms 100KH, 150°C
16	270	8×8	0.08	30	800	25	270	10×10	0.08	19	1900
	330	8×10	0.08	17	1900		330	10×12.3	0.08	15	2100
	390	8×10	0.08	17	1900	35	82	8×8	0.08	44	600
	470	8×11.7	0.08	16	2000		100	8×10	0.08	22	1700
	560	10×10	0.08	16	2000		120	8×11.7	0.08	21	1800
	680	10×10	0.08	16	2000		150	8×11.7	0.08	21	1800
	820	10×12.3	0.08	13	220		180	10×10	0.08	21	1800
	1000	10×12.3	0.08	13	2200		220	10×12.3	0.08	16	2000
20	180	8×8	0.08	39	600	50	47	8×8	0.08	40	600
	220	8×8	0.08	39	600		56	8×10	0.08	35	1500
	270	8×10	0.08	20	1800		68	8×11.7	0.08	30	1500
	330	8×11.7	0.08	18	1900		82	10×10	0.08	25	1500
	390	10×10	0.08	18	1900		100	10×12.3	0.08	22	1600
	470	10×10	0.08	18	1900		120	10×12.3	0.08	22	1600
	560	10×12.3	0.08	15	2100	63	27	8×8	0.08	52	400
	100	8×8	0.08	41	600		33	8×10	0.08	38	1300
25	120	8×8	0.08	41	600		39	8×10	0.08	38	1300
	150	8×10	0.08	20	1800		47	8×11.7	0.08	35	1300
	180	8×11.7	0.08	19	1900		56	10×10	0.08	28	1400
	220	8×11.7	0.08	19	1900		68	10×12.3	0.08	25	1500
	220	10×10	0.08	19	1900						

## ■ Ripple current frequency coefficient

Frequency (f)	1KHz≤f<1KHz	1KHz≤f<10KHz	10KHz≤f<100KHz	100KHz≤f<300KHz
coefficient	0.05	0.3	0.7	1.0

## PART NUMBER EXAMPLE

