

CABBF

for defense



※It meets the environmental requirements of the national military standard GJB3516-99 such as vibration, low pressure and humidity resistance.

※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℃~+85℃								
Rated voltage range	6.3V~160V								
Nominal capacitance range	15μF~10000μF								
Allowable deviation of nominal capacitance (25℃, 100Hz)	T (-10%~+50%)								
DC leakage current (25℃, 5min)	I≤0.03CRUR (μA) CR: Nominal capacitance (μF); UR: Rated voltage (V)								
The loss angle tangent tgδ (25℃, 100Hz)	UR(V)	6.3	10	16	25/32	50	63	100	160
	tgδ (≤)	0.4~0.6	0.35~0.5	0.30~0.5	0.2~0.4	0.2~0.3	0.2~0.3	0.2~0.3	0.2
Temperature characteristics (impedance ratio, 100Hz)	UR(V)		6.3	10~16		25~160			
	Z-55℃/Z+25℃		≤7	≤5		≤4			
durability	The rated voltage is applied at 85℃ for 2000h, and after recovery for 24h, the electrical performance is tested at room temperature (25℃±5℃), and its electrical performance conforms to:								
	Rate of change in capacitance	≤± 20% of initial measurement (UR≤100V) ≤± 15% of initial measured value (UR>100V)							
	Loss tangent tgδ	≤ 200% of the initial specified value							
	DC leakage current	≤ initial prescriptive value							
Store at high temperatures	After storage at 85℃ for 1000h, recovery for 24 h, and test at room temperature (25℃±5℃), its electrical properties meet the following requirements:								
	Rate of change in capacitance	≤± 20% of initial measurement (UR≤100V) ≤± 15% of initial measured value (UR>100V)							
	Loss tangent tgδ	≤ 200% of the initial specified value							
	DC leakage current	≤ 200% of the initial specified value							
Shelving life	After being left at +85℃ for 100h and recovered for 24h, the electrical properties of the room temperature (25℃±5℃) were tested, and the electrical properties were in line with:								
	Structural coefficients	≤4.0			Shelving factor		≤3.0		
	Rate of change in capacitance	≤± 10% of the initial measurement							
	Loss tangent tgδ	≤ 175% of the initial specified value							
	DC leakage current	≤ 200% of the initial specified value							

Implementation standard number: Q/MN20009-97 and GJB3516-99

■ Outline drawing and size table (mm)

The diagram illustrates the physical dimensions and features of the CABBF capacitor. The cross-section on the left shows an outer diameter $D \geq 6.3$ and a height F . A negative terminal is indicated on the bottom. The side view shows a rectangular body with a length $L \pm 1$, a diameter ϕD , and a lead diameter ϕd . The lead length is 15 min and the terminal width is 4 min . Labels include 'explosion venting' and 'insulation sleeving'.

$D \pm 1.0$	12	14	16	19	22	26				
$F \pm 0.5$	5	7.5	7.5	10	12.5					
$d \pm 0.1$	0.5	0.8								
$L \pm 1.0$	20	20	25	30	35	35	40	45	45	60

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List of product specifications and technical parameters

$U_R(V)$ $C_R(\mu F)$	6.3 0J				10 1A				16 1C			
	DxL (mm)	$I_{\sim}$ (μA)	$Z(\Omega)$		DxL (mm)	$I_{\sim}$ (μA)	$Z(\Omega)$		DxL (mm)	$I_{\sim}$ (μA)	$Z(\Omega)$	
			1kHz	10kHz			1kHz	10kHz			1kHz	10kHz
470									12x20	240		0.22
680					12x20	260		0.27	14x20	300		0.22
1000	12x20	300		0.24	14x20	340		0.18	16x25	440		0.15
1500	14x20	390	0.32		16x25	500	0.23		16x35	640	0.20	
2200	16x25	570	0.22		16x30	660	0.16		19x35	840	0.14	
3300	16x35	730	0.15		16x35	820	0.11		19x40	960	0.10	
4700	19x35	950	0.10		19x40	1020	0.07		22x45	1300	0.07	
6800	19x40	1050	0.07		22x45	1400	0.06		26x45	1520	0.06	
10000	22x45	1350	0.06		26x45	1840	0.06		26x60	2130	0.06	

$U_R(V)$ $C_R(\mu F)$	25 1E				35 1V				50 1H			
	DxL (mm)	$I_{\sim}$ (μA)	$Z(\Omega)$		DxL (mm)	$I_{\sim}$ (μA)	$Z(\Omega)$		DxL (mm)	$I_{\sim}$ (μA)	$Z(\Omega)$	
			1kHz	10kHz			1kHz	10kHz			1kHz	10kHz
100									12x20	140		0.90
150									14x20	180		0.60
220					12x20	200		0.30	16x25	260		0.41
330	12x20	240		0.37	14x20	260		0.34	16x35	370		0.28
470	14x20	316		0.28	16x25	370		0.24	19x35	460		0.20
680	16x25	440		0.18	16x35	530		0.16	19x40	620		0.14
1000	16x35	520		0.12	19x35	570		0.11	22x45	700		0.90
1500	19x35	700	0.18		19x40	750	0.15		26x45	930	0.12	
2200	19x40	900	0.11		22x45	1030	0.10		26x60	1300	0.08	
3300	22x45	1260	0.07		26x60	1370	0.07					
4700	26x60	1420	0.06		26x60	1650	0.60					
6800	26x60	2000	0.06									

→ Impedance (25 °C, 1kHz, or 10kHz)

→ Rated ripple current (85 °C, 100Hz)

CABBF

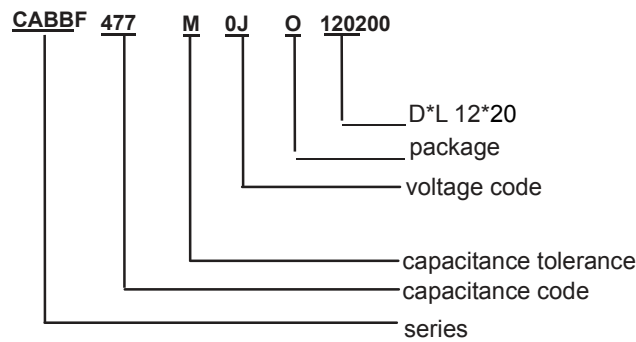
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List of product specifications and technical parameters

$U_R(V)$ $C_R(\mu F)$	63 1J				100 2A				160 2C			
	DxL (mm)	$I_{\sim}$ (μA)	$Z(\Omega)$		DxL (mm)	$I_{\sim}$ (μA)	$Z(\Omega)$		DxL (mm)	$I_{\sim}$ (μA)	$Z(\Omega)$	
			1kHz	10kHz			1kHz	10kHz			1kHz	10kHz
15									12x20	50		6.67
22									14x20	60		4.55
33					12x20	80		2.12	16x25	90		3.30
47					14x20	100		1.49	16x30	120		2.13
68	12x20	110		1.13	16x25	140		1.03	16x35	150		1.47
100	14x20	150		0.80	16x30	190		0.70	19x35	210		1.60
150	16x25	210		0.54	16x35	250		0.47	19x40	270		0.67
220	16x35	300		0.37	19x35	330		0.52	22x45	380		0.46
330	19x35	400		0.25	19x40	430		0.22	26x45	500		0.31
470	19x40	510		0.17	22x45	590		0.15	26x60	620		0.22
680	22x45	700		0.12	26x60	760		0.11				
1000	26x45	760		0.08	26x60	870		0.07				
1500	26x60	1070	0.12									

→ Impedance (25 °C, 1kHz, or 10kHz)
→ Rated ripple current (85 °C, 100Hz)

HOW TO MAKE A PART NUMBER



Code	Lead Forming Type
O	Bulk
T	5mm Chip tape
A	(Φ4~Φ6.3)2.5mm tape
F	(Φ4~Φ8)5mm tape
P	Φ≥Φ8mm original(vertical)tape
M	5mm Lead forming
C	C Lead forming
B	B Lead forming
D	(Φ4~Φ8)2.5mm Lead forming