

CONDUCTIVE POLYMER HYBRID ALUMINUM ELECTROLYTIC CAPACITORS



BRA Series

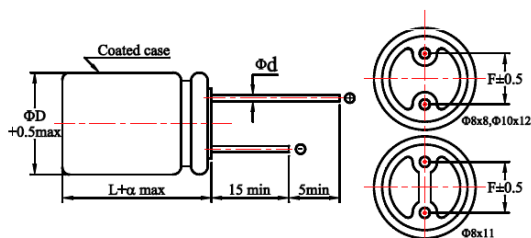
- Low ESR at a high frequency range
- High ripple current capability
- Load life 4,000 hours at 125°C



◆ SPECIFICATIONS

Item	Performance Characteristics	
Category Temperature Range	-55 ~ +125°C	
Working Voltage Range	35 ~ 80Vdc	
Surge Voltage	Rated Voltage × 1.15	
Capacitance Range	33 ~ 270 μF	
Capacitance Tolerance	±20% (at 25°C and 120Hz)	
Dissipation Factor (tanδ)	See the standard ratings table (at 25°C, 120Hz).	
Leakage Current ※ 1	See the standard ratings table (Impress the rated voltage for 2 minutes)	
Low Temperature Characteristics Impedance Ratio	Z(-25°C)/Z(+20°C) ≤ 1.5 at 100KHz Z(-55°C)/Z(+20°C) ≤ 2.0 at 100KHz	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 25°C after subjected to DC voltage with the rated ripple current is applied for 4,000 hours at 125°C.	
	Capacitance change	≦ ±30% of the initial value
	Dissipation factor(tanδ)	≦ 200% of the specified value
	ESR	≦ 200% of the specified value
	Leakage current	≦ specified value
Damp Heat (Steady State)	The following requirements shall be satisfied when the capacitor are restored to 25°C after exposing them for 1,000 hours at 85°C 85% RH.	
	Capacitance change	≦ ±30% of the initial value
	Dissipation factor(tanδ)	≦ 200% of the specified value
	Leakage current	≦ specified value
Other	Conforms to JIS-C-5101-4-1 (1998)	

◆ DIMENSIONS (mm)



◆ LEAD

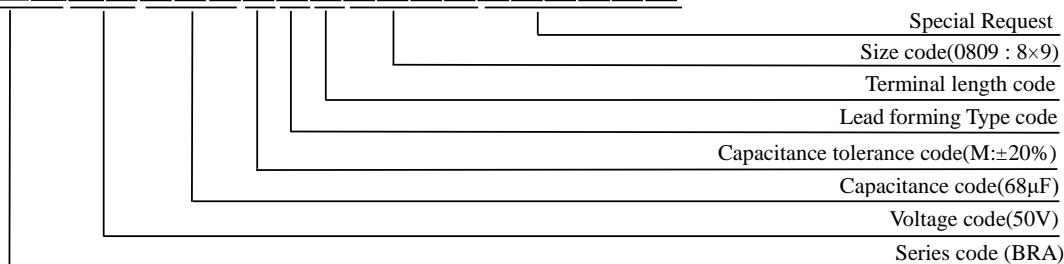
Code	ΦD	Φd	L	α	F
0809	8	0.6	9.0	1.5	3.5
1010	10	0.6	10.0	1.5	5.0

◆ MARKING



◆ PART NUMBER SYSTEM (Example : 50V 68μF)

B R A 1 H 6 8 0 M N N 0 8 0 9



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◆ STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case Size (mm) ΦD×L	ESR 100~300KHz (mΩmax)	Rated Ripple current (mArms/ 125°C, 100KHz)	Tanδ max	Leakage Current (μA max)	Part Number
35 (1V)	150	8×9	27	1600	0.12	52.5	BRA1V151MNN0809U
	270	10×10	20	2000	0.12	94.5	BRA1V271MNN1010U
50 (1H)	68	8×9	30	1250	0.10	34	BRA1H680MNN0809U
	100	10×10	28	1600	0.10	50	BRA1H101MNN1010U
63 (1J)	33	8×9	40	1100	0.08	20.8	BRA1J330MNN0809U
	56	10×10	30	1400	0.08	35.3	BRA1J560MNN1010U
80(1K)	47	10×10	36	1360	0.08	37.6	BRA1K470MNN1010U