ASAB Series

- Feature: Low ESL、Miniaturization (B size)
- Endurance 2000hrs at 105℃
- Rate voltage: 10-25 Vdc.

Specifications

Item	Conditions	Characteristics	
Category Temperature Range		-40~ +105°C	
Rated Voltage Range		10 to 25 V.DC,	
Capacitance Tolerance	at 20°C, 120Hz	±20 %	
Leakage Current	at 20°C after 2 minutes	I ≦ 0.3CV (10 V.DC to 25 V.DC) I：Leakage Current(μA), C：Rated Capacitance(μF), V：Rated Voltage(V)	
Surge Voltage	15°C to 35°C	Rated voltage × 1.15 (10 V.DC to 25 V.DC)	
Dissipation Factor (tanδ)	at 20°C，120Hz	0.10 max.	
Endurance	105°C, rated voltage applied,2000 hrs	Appearance	No significant damage
		Capacitance Change	±20% of initial value
		Dissipation Factor	≤ 200% of the initial specified value
		Leakage Current	(10 V.DC to 25 V.DC) ≤ within the initial limit
Damp Heat, Steady State	60°C, 90 to 95%RH, 500 hrs.	Appearance	No significant damage
		Capacitance Change	(10 V.DC to 25 V.DC) +60%, -20% of the initial value
		Dissipation Factor	≤ 200% of the initial specified value
		Leakage Current	10 V.DC to 25 V.DC ≤ 300% of the initial specified value
Surge Voltage	The capacitors shall be subjected to 1000 cycles each consisting of charge with the surge voltages, at 15°C to 35°C for 30 seconds through a protective resistor(R=1KΩ)and discharge for 5min 30 seconds.	Appearance	No significant damage
		Capacitance Change	±10% of the initial value
		Dissipation Factor	within the initial specified value
		Leakage Current	within the initial specified value
Solderability	Pb-free solder Around 25% rosin melted ethanol or isopropylalcohol Temperature：245 ± 5 °C Immersing time：2 ± 0.5 s	More than 95% of outer terminal surface to be covered	
Resistance to Solvents	Solvent：isopropylalcohol Immersing time：30 ± 5 s Room temperature	No significant damage and marking readable	
Shelf life	Test temperature:105±2°C Test time:500hrs.	Appearance	No significant damage
		Capacitance Change	±10% of the initial value
		Dissipation Factor	within the initial specified value
		Leakage Current	within the initial specified value

ASAB Series

Standard Ratings

WV (VDC)	Case size (mm)			Specifications					
	L	W	H	Cap (μF)@120Hz	tanδ Max. @120Hz	ESR Max.*2 (mΩ) @100kHz	Leakage Current Max. (μA)	Ripple Current*1 (mA r.m.s) @100kHz	Part No.
10	3.5	2.8	1.9	33	0.1	80	99	2000	*ASAB100S330E80
16	3.5	2.8	1.9	10	0.1	100	48	2000	*ASAB160S100EA0
	3.5	2.8	1.9	33	0.1	60	158.4	2000	*ASAB160S330E60
	3.5	2.8	1.9	33	0.1	90	158.4	2000	*ASAB160S330E90
25	3.5	2.8	1.9	15	0.1	40	112.5	2000	ASAB250S150E40
	3.5	2.8	1.9	15	0.1	60	112.5	2000	ASAB250S150E60
	3.5	2.8	1.9	15	0.1	100	112.5	2000	ASAB250S150EA0
	3.5	2.8	1.9	22	0.1	60	165	2000	ASAB250S220E60
	3.5	2.8	1.9	22	0.1	100	165	2000	ASAB250S220EA0

*Engineering

*1:Ripple Current:(100kHz / +45°C)

*2:ESR Max (100kHz / +20°C)

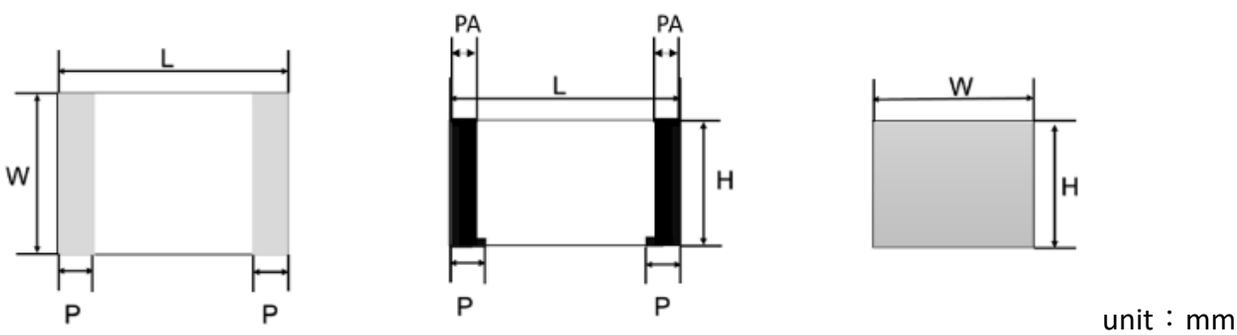
Temperature Compensation Multipliers for Ripple Current			
	≤ 45°C	45°C < T ≤ 85°C	85°C < T ≤ 105°C
10 V.DC to 25 V.DC	1.0	0.8	0.5

PRODUCT IDENTIFICATION

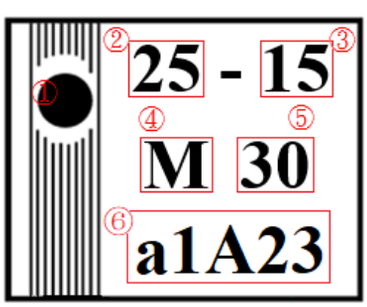
ASAB	250	S	150	E40
Product	Rated Voltage 250: 25V	Case Height S:1.9mm	Capacitance 150=15μF	ESR E40： 40mΩ

DIMENSIONS AND MARKING

Case size	L	W	H	P	PA
B	3.5±0.2	2.8±0.2	1.9±0.1	0.8±0.2	≤ 0.3



unit：mm



① Polarity Bar (+)
② Rated Voltage
③ Rated Capacity
④ Year (Q for 2025、R for 2026、S for 2027、T for 2028)
⑤ Week
⑥ Serial Code