

- Super low ESR, high ripple current capability
- Endurance: 5,000 hours at 105°C
- $\mbox{\bf @}$ Rated voltage : $25V_{\mbox{\scriptsize dc}},$ Capacitance range : 180 to $820\mu\mbox{\bf F}$
- RoHS2 Compliant
- Halogen Free



SPECIFICATIONS

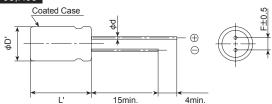
Items	Characteristics					
Category Temperature Range	-55 to +105℃					
Rated Voltage	25V _{dc}					
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)					
Leakage Current *Note	I=0.2CV Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 2 minutes)					
Dissipation Factor (tan δ)	0.12 max. (at 20℃, 120Hz)					
Low Temperature Characteristics (Max.Impedance Ratio)	$Z(-25^{\circ}C)/Z(+20^{\circ}C) \le 1.15$ $Z(-55^{\circ}C)/Z(+20^{\circ}C) \le 1.25$ (at 100kHz)					
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 5,000 at 105°C.					
	Appearance	No significant damage				
	Capacitance change	≦±20% of the initial value				
	D.F. (tan δ)	≦150% of the initial specified value				
	ESR	≦150% of the initial specified value				
	Leakage current	≦The initial specified value				
Bias Humidity Test	The following specification 90 to 95% RH for 1,000	ons shall be satisfied when the capacitors hours.	are restored to 20°C after subjecti	ing them to DC voltage at 60℃,		
	Appearance	No significant damage				
	Capacitance change	\leq ±20% of the initial value				
	D.F. (tan δ)	≦The initial specified value				
	ESR	≦150% of the initial specified value				
	Leakage current	≦The initial specified value				
Surge Voltage Test	The capacitors shall be subjected to 1,000 cycles each consisting of charge with the surge voltage specified at 105°C for 30 seconds through a protective resistor(R=1kΩ) and discharge for 5 minutes 30 seconds.					
	Rated voltage (Vdc)	25				
	Surge voltage (Vdc)	29				
	Appearance	No significant damage				
	Capacitance change	≦±20% of the initial value				
	D.F. (tan δ)	≦The initial specified value				
	ESR	≤150% of the initial specified value				
	Leakage current	≦The initial specified value				
Failure Rate	0.5% per 1,000 hours m	aximum (Confidence level 60% at 105°C)				

*Note: If any doubt arises, measure the leakage current after the following voltage treatment. Voltage treatment: DC rated voltage is applied to the capacitors for 120 minutes at 105°C.

◆DIMENSIONS [mm]

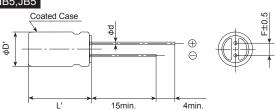
●Terminal Code : E

F08,H08



Size code	F08	H08	HB5	JB5
φD	6.3	8.0		10.0
φd	0.6			
F	2.5	3.5		5.0
φD'	φD+0.5max.			
L'	L+1.0max.		L+1.5max.	

HB5,JB5

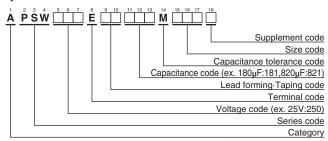








◆PART NUMBERING SYSTEM



Please refer to "Product code guide (conductive polymer type)"

STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Case size φ D×L (mm)	ESR (m Ω max./20°C, 100k to 300kHz)	Rated ripple current (mArms/105℃, 100kHz)	Part No.
	180	6.3×8	28	2,780	APSW250E□□181MF08S
25	330	8×8	18	3,770	APSW250E□□331MH08S
25	470	8×11.5	16	4,650	APSW250E□□471MHB5S
	820	10 × 11.5	14	5,000	APSW250E□□821MJB5S

 $\square\,\square$: Enter the appropriate lead forming or taping code.

TABLE CURRENT MULTIPLIERS

Frequency Multipliers

Frequency(Hz)	120	1k	10k	50k	100k to 500k
Radial lead type	0.10	0.35	0.60	0.80	1.00