- Super low ESR, high ripple current capability
- Endurance: 5,000 hours at 105°C
- RoHS2 Compliant
- Halogen Free



SPECIFICATIONS

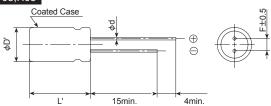
Items	Characteristics						
Category Temperature Range	-55 to +105℃						
Rated Voltage	25V _{dc}						
Capacitance Tolerance	±20% (M)	±20% (M) (at 20°C, 120Hz)					
Leakage Current *Note	I=0.2CV Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 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 specificatio at 105℃.	ns shall be satisfied when the capacitors a	re restored to 20℃ after the rate	d voltage is applied for 5,000 hours			
	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 specifications shall be satisfied when the capacitors are restored to 20°C after subjecting them to DC voltage at 60°C, 90 to 95% RH for 1,000 hours.						
	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					
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 (V _{dc})	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						
	Leakage current	≦The initial specified value					

*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]

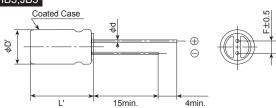
●Terminal Code : E

F08,H08



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

HB5,JB5

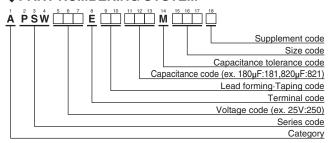








◆PART NUMBERING SYSTEM



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

STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Case size φ D×L (mm)	ESR (mΩ 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



- Always read "Notes on Use" before using the product in order to enable you to use the product correctly and prevent any faults and accidents from occurring.
- Request the Product Specification on the product of NIPPON CHEMI-CON CORPORATION to refer to it as well as this brochure prior to the order of the products. Some specific notes on use of the ordered product may be described in the specifications.
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In addition, we have an established system with enhanced traceability, therefore we will limit the applicable lot items for any potential compensation.

Part Numbering System
Part Numbering System (Appendix)
Standardization
Available Items by Manufacturing Locations
Environmental Measures
Technical Note
Precautions and Guidelines
Recommended Soldering Conditions
Taping, Lead-preforming, Terminal and Packaging Options