NPCAP™-PSW Series

- Super low ESR, high ripple current capability
- Endurance: 5,000 hours at 105℃
- Rated voltage : 25Vdc, Capacitance range : 180 to 820μF
- RoHS2 Compliant
- Halogen Free

PSW
↑ Downsized
PSG

◆SPECIFICATIONS

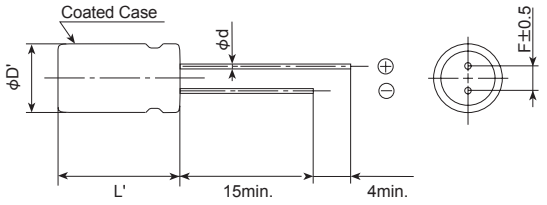
Items	Characteristics
Category Temperature Range	-55 to +105℃
Rated Voltage	25Vdc
Capacitance Tolerance	±20% (M) (at 20℃, 120Hz)
Leakage Current *Note	I=0.2CV Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20℃ after 2 minutes)
Dissipation Factor (tan δ)	0.12 max. (at 20℃, 120Hz)
Low Temperature Characteristics (Max.Impedance Ratio)	Z(-25℃)/Z(+20℃)≦1.15 Z(-55℃)/Z(+20℃)≦1.25 (at 100kHz)
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage is applied for 5,000 hours at 105℃.
	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℃ after subjecting them to DC voltage at 60℃, 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℃ 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

*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℃.

◆DIMENSIONS [mm]

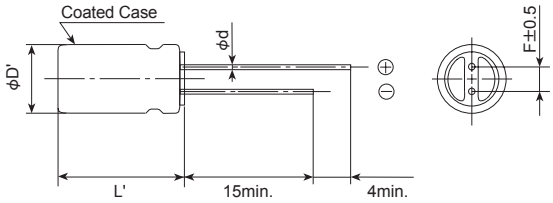
●Terminal Code : E

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



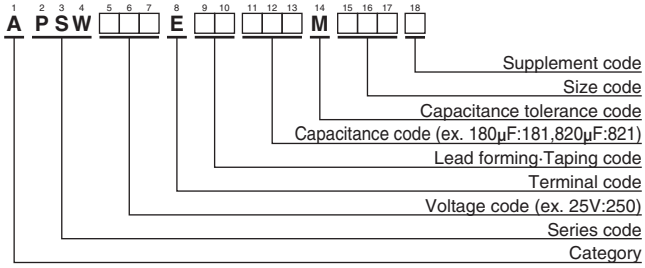
◆MARKING

EX) 25V180μF

Product specifications in this catalog are subject to change without notice.Request our product specifications before purchase and/or use. Please use our products based on the information contained in this catalog and product specifications.

NPCAP™-PSW Series

◆PART NUMBERING SYSTEM



Please refer to “Product code guide (conductive polymer type)”

◆STANDARD RATINGS

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

□□ : Enter the appropriate lead forming or taping code.

◆RATED RIPPLE 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

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