

NPCAPTM-PSE_{Series}

- Super low ESR, high ripple current capability
- **O** Downsized from PSC series (ϕ 8×8L to ϕ 6.3×8L)
- Endurance is longer than PSC series (20,000 hours at 105°C)
- Rated voltage range: 2.5 to 6.3 Vdc
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- RoHS2 Compliant
- Halogen Free





SPECIFICATIONS

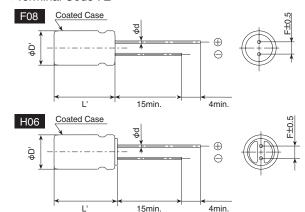
Items	Characteristics					
Category Temperature Range	-55 to +105℃					
Rated Voltage Range	2.5 to 6.3V _{dc}					
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)					
Surge Voltage	Rated voltage(V)×1.15 (at 105°C)					
Leakage Current	I=0.2CV or 500μA, whichever is greater					
*Note	Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C					
Dissipation Factor (tan δ)	0.10 max. (at 20°C, 120Hz)					
Low Temperature Characteristics (Max.Impedance Ratio)	$Z(-25^{\circ})/Z(+20^{\circ}) \le 1.15$ $Z(-55^{\circ})/Z(+20^{\circ}) \le 1.25$ (at 100)					
Endurance	The following specification at 105℃.	s shall be satisfied when the capacitors are restore	d to 20°C after the rated voltage is applied for 20,000 hours			
	Appearance	No significant damage				
	Capacitance change	$\leq \pm 20\%$ of the initial value				
	D.F. (tan δ)	≦150% of the initial specified value				
	ESR	≦200% 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	≦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.					
	Appearance	No significant damage				
	Capacitance change	≦±20% of the initial value				
	D.F. (tan δ)	≦The initial specified value	1			
	ESR	≦The initial specified value	1			
	Leakage current	≦The initial specified value	1			
Failure Rate	0.5% per 1,000 hours maximum (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



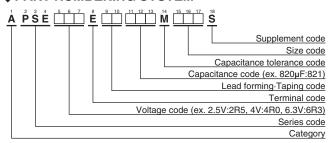
Size code	F08	H06	
φD	6.3	8.0	
φd	0.6		
F	2.5	3.5	
φD'	φD+0.5max. L+1.5max.		
L'			







◆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.
2.5	680	8×6	8	4,900	APSE2R5E□□681MH06S
2.5	820	6.3×8	7	5,000	APSE2R5E□□821MF08S
4	560	6.3×8	7	5,000	APSE4R0E□□561MF08S
6.3	470	6.3×8	8	4,700	APSE6R3E□□471MF08S
0.3	560	6.3×8	8	4,700	APSE6R3E□□561MF08S

 $\square\,\square$: 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

CAT. No. E1001R