

NPCAPTM-PSE Series

- Super low ESR, high ripple current capability
- Endurance : 20,000 hours at 105°C
 Rated voltage range : 2.5 to 6.3Vdc
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- **◎** RoHS2 Compliant
- OHalogen Free





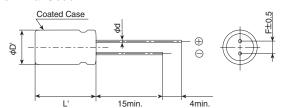
SPECIFICATIONS

Items	Characteristics					
Category Temperature Range	-55 to +105℃					
Rated Voltage Range	2.5 to 6.3V₀c					
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)					
Surge Voltage	Rated voltage(V) \times 1.15 (at 105°C)					
Leakage Current *Note	I=0.2CV or 500μA, whichever is greater Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 2 minutes)					
Dissipation Factor (tan δ)	0.10 max. (at 20°C, 120Hz)					
Low Temperature Characteristics (Max.Impedance Ratio)	$Z(-25^{\circ}C)/Z(+20^{\circ}C)$ ≦1.15 $Z(-55^{\circ}C)/Z(+20^{\circ}C)$ ≦1.25 (at 100kHz)					
Endurance	The following specification at 105℃.	s shall be satisfied when the capacitors are restored	d to 20°C after the rated voltage is applied for 20,000 hours			
	Appearance	No significant damage				
	Capacitance change	≤±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				
	ESR	≦The initial specified value				
	Leakage current	≦The initial specified value				
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



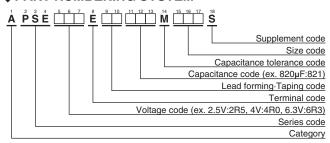
Size code	F08	
φD	6.3	
φd	0.6	
F	2.5	
φD'	φD+0.5max.	
L'	L+1.5max.	







◆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	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