

NPCAP™-PSE Series

- •Super low ESR, high ripple current capability
- ●Downsized from PSC series (φ8×8L to φ6.3×8L)
- ●Endurance is longer life than PSC series (5,000 hours at 105°C)
- ●ESR after endurance is specified within the initial spec
- ●Rated voltage range: 2.5 to 6.3Vdc
- ●RoHS Compliant
- ●Halogen Free





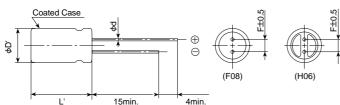
SPECIFICATIONS

Items	Characteristics						
Category Temperature Range	−55 to +105°C						
Rated Voltage Range	2.5 to 6.3V _{dc}						
Capacitance Tolerance	±20% (M) (at 20℃, 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 after 2 minutes)						
Dissipation Factor (tanδ)	0.10 max. (at 20°C, 120Hz)						
Low Temperature Characteristics	Z(-25°C)/Z(+20°C)≦1.15						
(Max.Impedance Ratio)	Z(-55°C)/Z(+20°C)≦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 at 105°C.						
	Appearance	No significant damage					
	Capacitance change	≦±20% of the initial value					
	D.F. (tanδ)	≦The initial specified value					
	ESR	≦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∂)	≦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 ($R=1k\Omega$) and discharge for 5 minutes 30 seconds.						
	Appearance	No significant damage					
	Capacitance change	≦±20% of the initial value					
	D.F. (tanδ)	≦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



F08	H06	
6.3	8.0	
0.6		
2.5	3.5	
φD+0.5max.		
L+1.5max.		
	6.3 0 2.5 φD+0	

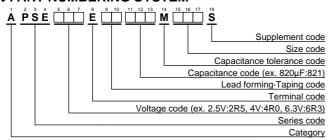


(1/2)





◆PART NUMBERING SYSTEM



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

STANDARD RATINGS

WV(Vdc)	Cap(μF)	Case size φD×L(mm)	ESR (mΩ max./20°C, 100k to 300kHz)	Rated ripple current (mArms/105℃, 100kHz)	Part No.
2.5	680	8×6	8	4,900	APSE2R5E□□681MH06S
	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
	560	6.3×8	8	4,700	APSE6R3E□□561MF08S

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