

NPCAP™-PSE Series

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

PSE
↑
Longer life
Downsized
PSC



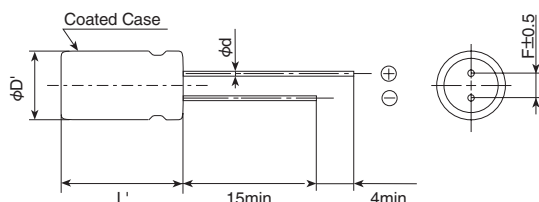
SPECIFICATIONS

Items	Characteristics				
Category	-55 to +105℃				
Temperature Range					
Rated Voltage Range	2.5 to 6.3V _{dc}				
Capacitance Tolerance	±20% (M) (at 20℃, 120Hz)				
Leakage Current	I=0.2CV or 500μA, whichever is greater Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20℃ after 2 minutes)				
*Note					
Dissipation Factor (tan δ)	0.10 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 20,000 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		≤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℃ 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		≤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 (V _{dc})		2.5	4.0	6.3
	Surge voltage (V _{dc})		2.9	4.6	7.2
	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℃)			

*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.

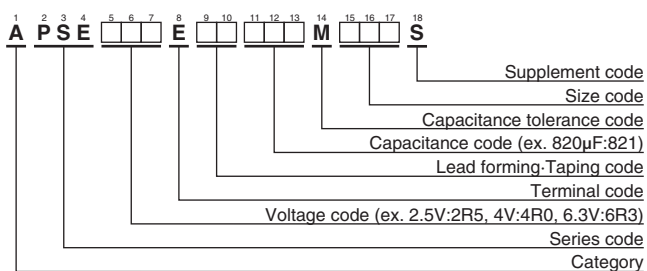
MARKING

EX) 2.5V820μF



NPCAP™-PSE Series

◆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 (mA _{rms} /105°C, 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
	560	6.3×8	8	4,700	APSE6R3E□□561MF08S

□□ : 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

Mouser Electronics

Authorized Distributor

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[APSE2R5ELL681MH06S](#) [APSE2R5EC3681MH06S](#) [APSE6R3EC3561MF08S](#)