PSE

PSC

Longer life

Downsized

NPCAPTM eries

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

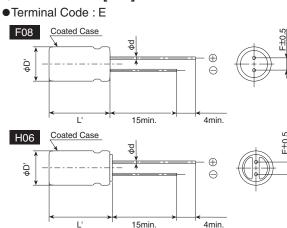
♦SPECIFICATIONS

Items	Characteristics					
Category Temperature Range	-55 to +105℃					
Rated Voltage Range	2.5 to 6.3V _∞					
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)					
Surge Voltage	Rated voltage(V)×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 $(\tan \delta)$	0.10 max. (at 20°C, 120Hz)					
Low Temperature Characteristics (Max.Impedance Ratio)	$Z(-25^{\circ}C)/Z(+20^{\circ}C) \leq 1.15$ $Z(-55^{\circ}C)/Z(+20^{\circ}C) \leq 1.25$ (at 100kHz)					
Endurance	The following specificatior at 105℃.	ns shall be satisfied when the capacitors are restore	ad 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)	\leq 150% of the initial specified value				
	ESR	\leq 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	$\leq \pm 20\%$ 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($R=1k\Omega$) and discharge for 5 minutes 30 seconds.					
	Appearance	No significant damage]			
	Capacitance change	$\leq \pm 20\%$ of the initial value				
	D.F. (tan δ)	≦The initial specified value	1			
	ESR	≦The initial specified value]			
	Leakage current	≦The initial specified value]			
Failure Rate	0.5% per 1,000 hours ma	aximum (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]

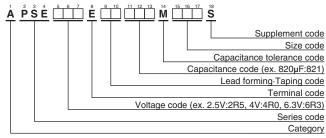


Size code	F08	H06	
φD	6.3	8.0	
φd	0.6		
F	2.5	3.5	
φD'	φD+0.5max.		
Ľ	L+1.5max.		





◆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 (mΩ max./20℃, 100k to 300kHz)	Rated ripple current (mArms/105℃, 100kHz)	Part No.
2.5	680	8×6	8	4,900	APSE2R5E 0681MH06S
	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

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.

 \Box \Box : 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