

- 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
- Halogen 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)								
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 specification at 105℃.	s shall be satisfied when the capacitors are restored 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	$\leq \pm 20\%$ 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.								
	Rated voltage (Vdc)	2.5 4.0 6.3							
	Surge voltage (V <sub>dc</sub> )	2.9 4.6 7.2							
	Appearance	No significant damage							
ĺ	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							

\*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





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.





PSE

PSC

Longer life

Downsized



# **◆**PART NUMBERING SYSTEM



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

#### **♦**STANDARD RATINGS

WV (V <sub>dc</sub> )	Сар (µF)	Case size φ D×L(mm)	ESR (mΩ max./20℃, 100k to 300kHz)	Rated ripple current (mArms/105℃, 100kHz)	Part No.	
2.5	820	6.3×8	7	5,000	APSE2R5E B821MF08S	
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	

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 $\Box\,\Box$  : 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