

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





#### **SPECIFICATIONS**

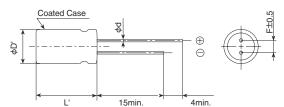
Items	Characteristics							
Category Temperature Range	-55 to +105℃							
Rated Voltage Range	2.5 to 6.3V <sub>dc</sub>							
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)							
Leakage Current *Note	I=0.2CV or 500μA, whichever is greater Where, I : Max. leakage current (μA), C : Nominal capacitance (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)	$Z(-25^{\circ})/Z(+20^{\circ})$ ≤1.15 $Z(-55^{\circ})/Z(+20^{\circ})$ ≤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 for 20,000 h at 105°C.							
	Appearance	No signific	ant damage					
	Capacitance change	≦±20% c	of the initial v	alue				
	D.F. (tan $\delta$ )	≦150% of	the initial sp	ecified value	)			
	ESR	≦200% of	the initial sp	ecified value				
	Leakage current	≦The initia	al specified v	/alue				
Bias Humidity Test								
	Appearance No significant damage							
	Capacitance change	≦±20% c	f the initial v	alue		1		
	D.F. (tan $\delta$ )	≦The initial specified value				1		
	ESR	≦The initial specified value ≦The initial specified value						
	Leakage current					1		
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 seconthrough a protective resistor(R=1kΩ) and discharge for 5 minutes 30 seconds.							
	Rated voltage (Vdc)	2.5	4.0	6.3				
	Surge voltage (Vdc)	2.9	4.6	7.2				
					'			
	Appearance	No significant damage						
	Capacitance change	≤±20% of the initial value				1		
	D.F. (tan $\delta$ )	≦The initial specified value				1		
	ESR	≦The initial specified value				1		
	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



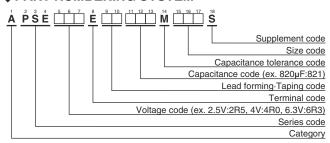
Size code	F08		
φD	6.3		
φd	0.6		
F	2.5		
φD'	φD+0.5max.		
L'	L+1.5max.		







## **◆PART NUMBERING SYSTEM**



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

## **STANDARD RATINGS**

WV (V <sub>dc</sub> )	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



- Always read "Notes on Use" before using the product in order to enable you to use the product correctly and prevent any faults and accidents from occurring.
- Request the Product Specification on the product of NIPPON CHEMI-CON CORPORATION to refer to it as well as this brochure prior to the order of the products. Some specific notes on use of the ordered product may be described in the specifications.
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  In addition, we have an established system with enhanced traceability, therefore we will limit the applicable lot items for any potential compensation.

Part Numbering System
Part Numbering System (Appendix)
Standardization
Available Items by Manufacturing Locations
Environmental Measures
Technical Note
Precautions and Guidelines
Recommended Soldering Conditions
Taping, Lead-preforming, Terminal and Packaging Options