



- Super low ESR, high ripple current capability
- **©** Downsized from PSE series ( $\phi$  6.3×8L to  $\phi$  5×8L)
- O Long life (20,000 hours at 105℃)
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- RoHS2 Compliant
- Halogen Free





#### **SPECIFICATIONS**

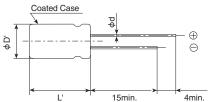
Items	Characteristics							
Category Temperature Range	-55 to +105℃							
Rated Voltage Range	2.5 to 6.3 V <sub>dc</sub>							
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)							
Leakage Current*Note	500μA max. (at 20°C after 2 minutes)							
Dissipation Factor (tan $\delta$ )	0.10 max. (at 20℃, 120Hz)							
Low Temperature Characteristics (Max.Impedance Ratio)	$Z(-25^{\circ}C)/Z(+20^{\circ}C)$ ≤1.15 $Z(-55^{\circ}C)/Z(+20^{\circ}C)$ ≤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 for 20,000 hours at 105°C.							
	Appearance	No significa	nt dan	nage				
	Capacitance change	≦±20% of the initial value						
	D.F. (tan $\delta$ )	≦150% of the initial specified value			d value			
	ESR	≦150% of the initial specified value			d 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	$\leq$ ±20% of the initial value						
	D.F. (tan $\delta$ )	≦The initial specified value						
	ESR ≦The initial specified value							
	Leakage current	≦The initia	l speci	fied value				
Surge Voltage Test						of charge with the surge voltage specified at 105°C for 30 seconds		
	through a protective resis				5 minutes	30 seconds.		
	Rated voltage (V <sub>dc</sub> )	2.5	4.0	6.3				
	Surge voltage (V <sub>dc</sub> )	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°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





Size code	E08		
φD	5.0		
$\phi$ d	0.5 (Note2)		
F	2.0		
φ <b>D</b> '	φD+0.5max.		
L'	L+1.0max.		

L' L+1.0max.

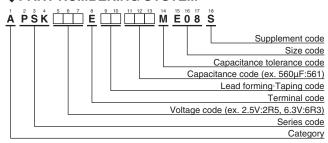
Note2: 0.45 for rated vollage 2.5V







## **◆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.
	220	5×8	7	4,350	APSK2R5E□□221ME08S
2.5	330	5×8	7	4,350	APSK2R5E□□331ME08S
2.5	470	5×8	7	4,350	APSK2R5E□□471ME08S
	560	5×8	7	4,350	APSK2R5E□□561ME08S
4	330	5×8	8	4,050	APSK4R0E□□331ME08S
6.3	270	5×8	10	3,700	APSK6R3E□□271ME08S
0.3	330	5×8	8	4,050	APSK6R3E□□331ME08S

 $<sup>\</sup>square\,\square$  : 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