

NPCAP™-PSK Series

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

PSK

↑ Downsized
Longer life
PSE



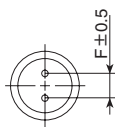
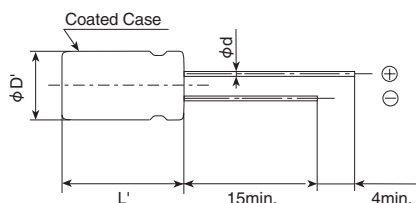
SPECIFICATIONS

Items	Characteristics				
Category					
Temperature Range	-55 to +105℃				
Rated Voltage Range	2.5 to 6.3 V _{dc}				
Capacitance Tolerance	± 20% (M) (at 20℃, 120Hz)				
Leakage Current*Note	500μA max. (at 20℃ after 2 minutes)				
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	≤150% 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

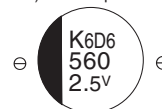


Size code	E08
φD	5.0
φd	0.5 (Note2)
F	2.0
φD'	φD+0.5max.
L'	L+1.0max.

Note2 : 0.45 for rated voltage 2.5V

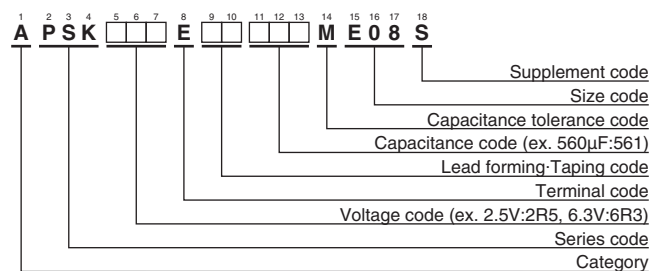
MARKING

EX) 2.5V560μF



NPCAP™-PSK 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	220	5 × 8	7	4,350	APSK2R5E□□221ME08S
	330	5 × 8	7	4,350	APSK2R5E□□331ME08S
	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
	330	5 × 8	8	4,050	APSK6R3E□□331ME08S

□□ : 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