

New!
NPCAP™-PSK Series

- Super low ESR, high ripple current capability
- Downsized from PSE series (φ6.3×8L to φ5×8L)
- Longer life (5,000 hours at 105°C)
- ESR after endurance is specified within the initial spec
- RoHS Compliant
- Halogen Free



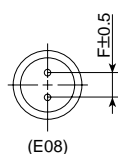
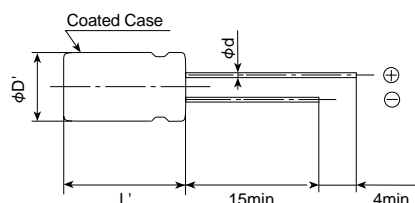
◆ SPECIFICATIONS

Items	Characteristics	
Category	-55 to +105°C	
Temperature Range		
Rated Voltage Range	2.5V _{dc}	
Capacitance Tolerance	±20% (M)	(at 20°C, 120Hz)
Surge Voltage	Rated voltage(V)×1.15	(at 105°C)
Leakage Current *Note	500μA max.	(at 20°C after 2 minutes)
Dissipation Factor (tanδ)	0.10 max.	(at 20°C, 120Hz)
Low Temperature Characteristics (Max.Impedance Ratio)	$Z(-25^{\circ}\text{C})/Z(+20^{\circ}\text{C}) \leq 1.15$ $Z(-55^{\circ}\text{C})/Z(+20^{\circ}\text{C}) \leq 1.25$	
	(at 100kHz)	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 5,000 hours at 105°C.	
	Appearance	No significant damage
	Capacitance change	≤±20% of the initial value
	D.F. (tanδ)	≤The initial specified value
	ESR	≤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	≤±20% of the initial value
	D.F. (tanδ)	≤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=1kΩ) and discharge for 5 minutes 30 seconds.	
	Appearance	No significant damage
	Capacitance change	≤±20% of the initial value
	D.F. (tanδ)	≤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

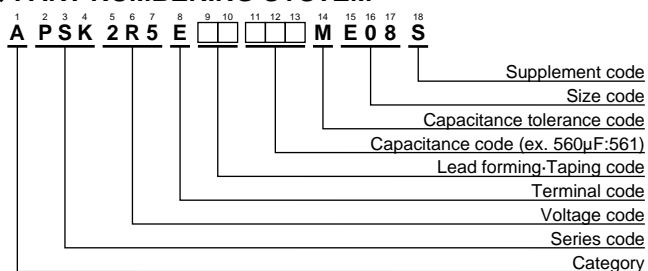


Size code	E08
φD	5.0
φd	0.45
F	2.0
φD'	φD+0.5max.
L'	L+1.0max.

◆ MARKING
EX) 2.5V560μF



◆PART NUMBERING SYSTEM



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

◆STANDARD RATINGS

WV(Vdc)	Cap(μF)	Case size φDXL(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

□□ : Enter the appropriate lead forming or taping code.

Mouser Electronics

Authorized Distributor

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