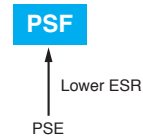


Upgrade!

NPCAP™-PSF Series

- Super low ESR, high ripple current capability
- ESR 5mΩ max. (2 to 4V_{dc})
- Longer life (5,000 hours at 105°C)
- ESR after endurance is specified within the initial spec (2 to 4V_{dc})
- Rated voltage range : 2 to 16V_{dc}
- RoHS Compliant
- Halogen Free



SPECIFICATIONS

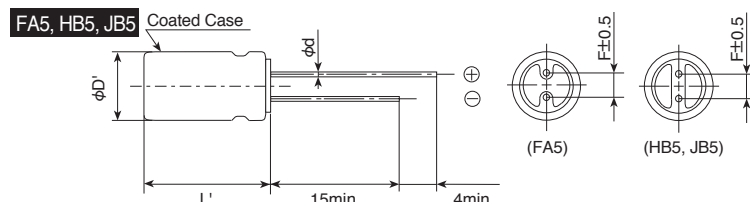
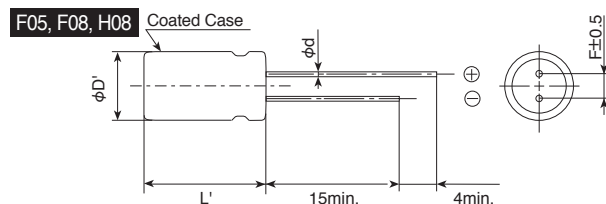
Items	Characteristics	
Category	Temperature Range	
Temperature Range	-55 to +105°C	
Rated Voltage Range	2 to 16V _{dc}	
Capacitance Tolerance	±20% (M)	
Surge Voltage	Rated voltage(V) × 1.15	
Leakage Current	Shall not exceed values shown in STANDARD RATINGS.	
*Note	(at 20°C after 2 minutes)	
Dissipation 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	2 to 4V _{dc} : ≤The initial specified value
		16V _{dc} : ≤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°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	2 to 4V _{dc} : ≤The initial specified value
		16V _{dc} : ≤150% of 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	2 to 4V _{dc} : ≤The initial specified value
		16V _{dc} : ≤150% of 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



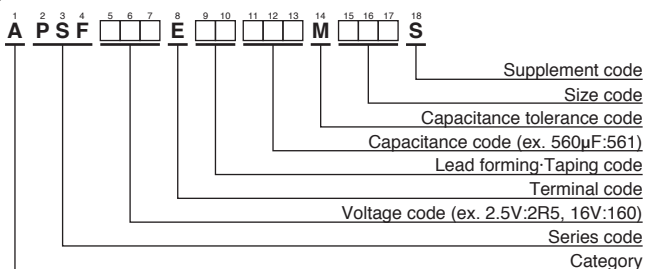
Size code	F05	F08	FA5	H08	HB5	JB5
ϕD	6.3			8.0		10.0
ϕd	0.45	0.6	0.5	0.6		
F	2.5			3.5		5.0
$\phi D'$	$\phi D+0.5\max.$					
L'	L+1.0max.		L+0.3max.		L+1.5max.	

MARKING

EX) 2.5V560μF



◆PART NUMBERING SYSTEM



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

◆STANDARD RATINGS

WV(Vdc)	Cap(μF)	Case size φD×L(mm)	Leakage current (μA max/after 2min.)	ESR (mΩ max./20°C, 100k to 300kHz)	Rated ripple current (mA rms/105°C, 100kHz)	Part No.
2	1,000	6.3×8	500	5	5,900	APSF2R0E□□102MF08S
2.5	330	6.3×8	500	5	5,900	APSF2R5E□□331MF08S
	470	6.3×8	500	5	5,900	APSF2R5E□□471MF08S
	560	6.3×8	500	5	5,900	APSF2R5E□□561MF08S
	820	6.3×8	500	5	5,900	APSF2R5E□□821MF08S
	1,200	6.3×8	1,200	5	5,900	APSF2R5E□□122MF08S
	1,600	8×8	800	5	6,100	APSF2R5E□□162MH08S
4	470	6.3×8	500	5	5,900	APSF4R0E□□471MF08S
	560	6.3×8	500	5	5,900	APSF4R0E□□561MF08S
16	100	6.3×5	500	24	2,490	APSF160E□□101MF05S
	100	6.3×10.5	500	25	2,820	APSF160E□□101MFA5S
	270	8×8	864	10	5,000	APSF160E□□271MH08S
	270	8×11.5	864	11	5,080	APSF160E□□271MHB5S
	330	8×8	1,050	13	4,700	APSF160E□□331MH08S
	470	8×11.5	1,500	11	5,400	APSF160E□□471MHB5S
	470	10×11.5	1,500	10	6,100	APSF160E□□471MJB5S

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