- Super low ESR, high ripple current capability
- **©** ESR 5m Ω max. (2 to 4Vdc)
- OLonger life (20,000 hours at 105℃)
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- RoHS2 Compliant
- Halogen Free





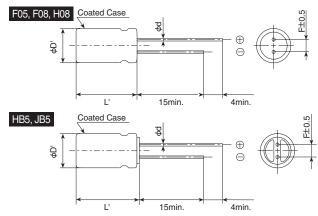
♦SPECIFICATIONS

Items	Characteristics						
Category Temperature Range	-55 to +105℃						
Rated Voltage Range	2 to 16V _{dc}						
Capacitance Tolerance	±20%(M)						
Leakage Current *Note	Shall not exceed values shown in STANDARD RATINGS. (at 20℃ after 2 minutes)						
Dissipation Factor (tan δ)	0.10 max. (at 20℃, 120Hz)						
Low Temperature Characteristics (Max.Impedance Ratio)	$Z(-25^{\circ})/Z(+20^{\circ}) \le 1.15$ $Z(-55^{\circ})/Z(+20^{\circ}) \le 1.25$ (at 100kHz)						
Endurance	The following specification at 105℃.	ions shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 20,000 hours					
	Appearance	No significa	nt damage				
	Capacitance change	≦±20% of	the initial valu	ie			
	D.F. (tan δ)	≦150% of the initial specified value					
	ESR	≦150% of the initial specified value					
	Leakage current	≦The initial	≦The initial specified value				
Bias Humidity Test	The following specification 90 to 95% RH for 1,000 h	ions shall be satisfied when the capacitors are restored to 20℃ after subjecting them to DC voltage at 60℃, bours.					
	Appearance	No significa	nt damage]	
	Capacitance change	≦±20% of the initial value				1	
	D.F. (tan δ)	≦The initial specified value]	
	ESR	2 to 6.3V _{dc} : ≦The initial specified value				1	
		16V _{dc} : ≦150% of the initial specified value				1	
	Leakage current	≦The initial	specified valu	ne		1	
Surge Voltage Test		subjected to 1,000 cycles each consisting of charge with the surge voltage specified at 105℃ for 30 second sistor(R=1kΩ) and discharge for 5 minutes 30 seconds.					
	Rated voltage (Vdc)	2.0	2.5	4.0	6.3	16	
	Surge voltage (V _{dc})	2.3	2.9	4.6	7.2	18	
	_						_
	Appearance	No significa	nt damage]	
	Capacitance change	≦±20% of the initial value				1	
	D.F. (tan δ)	≦The initial specified value				1	
	ESR	2 to 6.3V _{dc} : ≦The initial specified value				1	
		16V _{dc} : ≦150% of 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



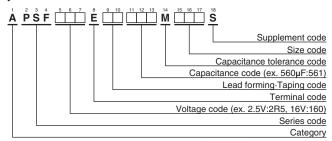
Size code	F05	F08	H08	HB5	JB5	
φD	6	.3	8.0		10.0	
φd	0.45	0.6				
F	2	.5	3.	5.0		
φD'	φD+0.5max.					
Note1: I	+1L21m0maxx.f6Nrofe.8V820uF1.5max.					







◆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)	Leakage current (μA max./after 2min.)	ESR (mΩ max./20°C, 100k to 300kHz)	Rated ripple current (mArms/105°C, 100kHz)	Part No.
2	1,000	6.3×8	500	5	5,900	APSF2R0E□□102MF08S
	330	6.3×8	500	5	5,900	APSF2R5E□□331MF08S
	470	6.3×8	500	5	5,900	APSF2R5E□□471MF08S
2.5	560	6.3×8	500	5	5,900	APSF2R5E□□561MF08S
2.5	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
4	560	6.3×8	500	5	5,900	APSF4R0E□□561MF08S
6.3	820	6.3×8	1,030	8	4,700	APSF6R3E□□821MF08S
	100	6.3×5	500	24	2,490	APSF160E□□101MF05S
	270	8×8	864	10	5,000	APSF160E□□271MH08S
16	270	8×11.5	864	11	5,080	APSF160E□□271MHB5S
16	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

 $[\]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

Product specifications in this catalog are subject to change without notice. Request our product specifications before purchase and/or use. Please use our products based on the information contained in this catalog and product specifications.



- 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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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

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