Radial Lead

PSW

PSG

PSF

Downsized

Downsized



OHigh capacitance model has been introduced to the product range.

- Super low ESR, high ripple current capability
- Endurance: 15,000 to 20,000 hours at 105℃
- Rated voltage : 16 to 35Vdc
- RoHS2 Compliant
- Halogen Free

♦SPECIFICATIONS

Items	Characteristics						
Category Temperature Range	-55 to +105°C						
Rated Voltage	16 to 35V _{dc}						
Capacitance Tolerance	±20% (M)	(at 20°C, 120Hz)					
Leakage Current *Note	I=0.2CV or 500µA, which Where, I : Max. leakage of	ever is greater current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 2 minutes)					
Dissipation Factor (tan δ)	0.12 max.	(at 20°C, 120Hz)					
Low Temperature Characteristics (Max.Impedance Ratio)	$Z(-25^{\circ}C)/Z(+20^{\circ}C) \le 1.15$ $Z(-55^{\circ}C)/Z(+20^{\circ}C) \le 1.25$ (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 (20 to 35V : 15,000 hours) at 105°C.						
	Appearance	No significant damage					
	Capacitance change	$\leq \pm 20\%$ 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°C after subjecting them to DC voltage at 60°C, 90 to 95% RH for 1,000 hours.						
	Appearance	No significant damage					
	Capacitance change	$\leq \pm 20\%$ of the initial value					
	D.F. (tan δ)	≦The initial specified value					
	ESR	≦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($R=1k\Omega$) and discharge for 5 minutes 30 seconds.						
	Rated voltage (Vdc)	16 20 25 35					
	Surge voltage (V _{dc})	18 23 29 40					
	Appearance	No significant damage					
	Capacitance change	$\leq \pm 20\%$ of the initial value					
	D.F. (tan δ)	≦The initial specified value					
	ESR	\leq 150% of the initial specified value					
	Leakage current	≦The initial specified value					

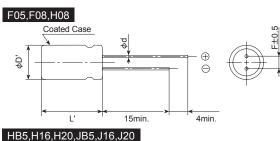
Product specifications in this catalog are subject to change without notice. Request our product specifications before purchase and/or use. Please use our products based on the information contained in this catalog and product specifications.

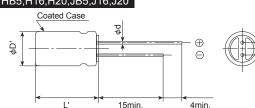
*Note : If any doubt arises, measure the leakage current after the following voltage treatment.

Voltage treatment : DC rated voltage is applied to the capacitors for 120 minutes at 105°C.

DIMENSIONS [mm]

•Terminal Code : E





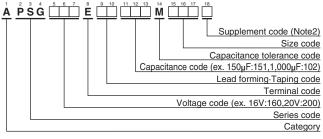
Size code	F05	F08	H08	HB5	H16	H20	JB5	J16	J20	
φD	6.	.3	8.0			10.0				
φd	0.45		0.6							
F	2.	2.5			3.5			5.0		
φ D '	φD+0.5max.									
Ľ	L+1.0max. (Note1)			L+1.5max.						

Note1: L+1.2 max. for 16V270 μ F (Rated ripple current 5,080mArms), for 16V330 μ F (Rated ripple current 5,080mArms).





PART NUMBERING SYSTEM



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

♦STANDARD RATINGS

(Note2) : PSG series, 16V270μF (Rated ripple current 5,080mArms), 16V330μF (Rated ripple current 5,080mArms), 16V470μF (Rated ripple current 5,400mArms), 16V560μF (Rated ripple current 6,100mArms), and 16V680μF (Rated ripple current 6,100mArms) have supplement code "J". Terminal and terminal plating are the same as all others in the PSG series.

WV (V _{dc})	Сар (µF)	Case size $\phi D \times L$ (mm)	ESR (mΩ max./20℃, 100k to 300kHz)	Rated ripple current (mArms/105℃, 100kHz)	Part No.
	150	6.3×5	20	3,200	APSG160E 151MF05S
	270	6.3×8	10	5,080	APSG160E 271MF08J
	270	6.3×8	15	3,800	APSG160E 271MF08S
	330	6.3×8	10	5,080	APSG160E 331MF08J
l l	330	6.3×8	15	3,800	APSG160E 331MF08S
	470	8×8	8	5,400	APSG160E 471MH08J
	470	8×8	16	4,000	APSG160E 471MH08S
	560	8×8	8	5,400	APSG160E 561MH08J
	560	8×8	16	4,000	APSG160E 561MH08S
	560	<u>8 × 11.5</u>	8	6,100	APSG160E 561MHB5J
	560	8 × 11.5	14	4,970	APSG160E 561MHB5S
	680	8×11.5	8	6,100	APSG160E G81MHB5J
16	680	<u>8 × 11.5</u>	14	4,970	APSG160E 681MHB5S
10	820	<u>8 × 16</u>	8	7,000	APSG160E 821MH16S
	820	10 × 11.5	12	5,400	APSG160E B21MJB5S
	1,000	8×16	8	7,000	APSG160E 102MH16S
	1,000	8 × 20	8	7,500	APSG160E 102MH20S
	1,000	10 × 11.5	12	5,400	APSG160E 102MJB5S
-	1,200	8×20	8	7,500	APSG160E 122MH20S
-	1,200	10×11.5	12	5,400	APSG160E 122MJB5S
-	1,500	8×20	8	7,500	APSG160E 152MH20S
-	1,500	10 × 16	8	7,700	APSG160E 152MJ16S
-	1,800	10 × 16	8	7,700	APSG160E 182MJ16S
	1,800	10×20	8	8,100	APSG160E 182MJ20S
	2,200	10×20	8	8,100	APSG160E
	<u>2,700</u> 120	10×20	<u> </u>	8,100	APSG160E
-		6.3×5	20	3,200	APSG200E 121MF05S
-	<u>180</u> 330	6.3×8 8×8	18	<u>3,460</u> 3.880	APSG200E 181MF08S APSG200E 331MH08S
20	390	8 × 11.5	17	4,970	APSG200E 331MH08S
ŀ	680	8 × 11.5	14	6.260	
ŀ	680	10 × 11.5	12	5,400	APSG200E 681MJB5S
	56	6.3×5	30	2.600	APSG250E 560MF05S
-	82	6.3×8	28	2,780	APSG250E 820MF08S
ŀ	100	6.3×8	28	2,780	APSG250E 101MF08S
ŀ	120	6.3×8	28	2,780	APSG250E 121MF08S
	150	6.3×8	28	2,780	APSG250E 151MF08S
	180	8×8	18	3,770	APSG250E 181MH08S
	180	8×11.5	16	4.650	APSG250E 181MHB5S
ľ	220	8×8	18	3,770	APSG250E 221MH08S
	220	8×11.5	16	4,650	APSG250E
25	270	8×8	18	3,770	APSG250E 271MH08S
	270	8×11.5	16	4,650	APSG250E 271MHB5S
	330	8×11.5	16	4,650	APSG250E 331MHB5S
	330	10×11.5	14	5,000	APSG250E 331MJB5S
	390	8 × 11.5	16	4,650	APSG250E 391MHB5S
	390	10 × 11.5	14	5,000	APSG250E 391MJB5S
[470	10 × 11.5	14	5,000	APSG250E 471MJB5S
[560	8×16	14	5,400	APSG250E 561MH16S
	560	10×11.5	14	5,000	APSG250E 561MJB5S
	680	10 × 11.5	14	5,000	APSG250E C681MJB5S
35	68	8×11.5	18	4,380	APSG350E 680MHB5S
35	120	10×11.5	16	4,670	APSG350E 121MJB5S

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 \Box : 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

CHEMI-CON CONDUCTIVE POLYMER ALUMINUM SOLID CAPACITORS Product Guide

- 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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- The circuits described as examples in this catalog and the "delivery specifications" are featured in order to show the operations and usage of our products, however, this fact does not guarantee that the circuits are available to function in your equipment systems. We are not in any case responsible for any failures or damage caused by the use of information contained herein. You should examine our products, of which the characteristics are described in the "delivery specifications" and other documents, and determine whether or not our products suit your requirements according to the specifications of your equipment systems. Therefore, you bear final responsibility regarding the use of our products.

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In addition, we have an established system with enhanced traceability, therefore we will limit the applicable lot items for any potential compensation.

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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