- High 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°C
- Rated voltage : 16 to 35Vdc
- RoHS2 Compliant
- Halogen Free





SPECIFICATIONS

Items	Characteristics									
Category Temperature Range	-55 to +105℃									
Rated Voltage	16 to 35V _{dc}									
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)									
Leakage Current *Note	I=0.2CV or 500μA, whichever is greater Where, I : Max. leakage 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℃, 120Hz)			
Low Temperature Characteristics (Max.Impedance Ratio)	$Z(-25^{\circ})/Z(+20^{\circ})$ ≤1.15 $Z(-55^{\circ})/Z(+20^{\circ})$ ≤1.25 (at 100kHz)									
Endurance	The following specification (20 to 35V: 15,000 hours			hen the ca	pacitors ar	e restored to 20°C after the rated	voltage is applied for 20,000 hours			
	Appearance	No signi	ficant dam	age						
	Capacitance change	≦±20%	of the ini	tial value						
	D.F. (tan δ)	≦150%	of the initi	al specifie	d value					
	ESR	≦150%	of the initi	al specifie	d value					
	Leakage current	≦The in	itial specif	ied value						
Bias Humidity Test	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjecting them to DC v 90 to 95% RH for 1,000 hours.									
	Appearance	No signi	ficant dam	age						
	Capacitance change	≦±20% of the initial value								
	D.F. (tan δ)	≦The in	itial specif	ied value						
	ESR	≦150%	of the initi	al specifie	d value					
	Leakage current	≦The in	itial specif	ied value						
Surge Voltage Test										
	Rated voltage (Vdc)	16	20	25	35					
	Surge voltage (Vdc)	18	23	29	40					
				•	•					
	Appearance	No signi	ficant dam	age						
	Capacitance change	≦±20%	of the ini	tial value						
	D.F. (tan δ)	≦The in	itial specif	ied value						
	ESR	≦150%	of the initi	al specifie	d value					
	Leakage current	≦The initial specified value								

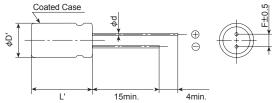
*Note: If any doubt arises, measure the leakage current after the following voltage treatment.

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

◆DIMENSIONS [mm]

●Terminal Code : E

F05,F08,H08



HB5,H16,H20,JB5,J	16,J20		
Coated Case	9	⊕ ⊖	F±0.5
, F,	15min.	4min.	

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.	.5	3.5 5.0						
φ D '	φD+0.5max.								
L'	L+1.0	Omax. (N	lote1)	L+1.5max.					

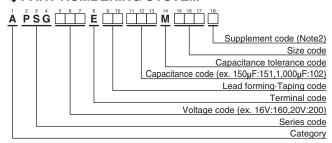
Note1: L+1.2 max. for $16V270 \mu$ F (Rated ripple current 5,080mArms), for $16V330 \mu$ F (Rated ripple current 5,080mArms).





NPCAPTM-PSGseries

◆PART NUMBERING SYSTEM



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

(Note2) : PSG series, $16V270\mu F$ (Rated ripple current 5,080mArms), 16V330µF (Rated ripple current 5,080mArms), 16V470µF (Rated ripple current 5,400mArms), 16V560µF (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.

STANDARD RATINGS

WV (V _{dc})	Cap (µF)	Case size φ D×L (mm)	ESR (mΩ max./20°C, 100k to 300kHz)	Rated ripple current (mArms/105°C, 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
	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	8 × 11.5	8	6,100	APSG160E□□561MHB5J
-	560	8 × 11.5	14	4,970	APSG160E□□561MHB5S
-	680	8 × 11.5	8	6,100	APSG160E□□681MHB5J
16	680	8 × 11.5	14	4,970	APSG160E□□681MHB5S
-	820	8 × 16	8	7,000	APSG160E□□821MH16S
-	820	10 × 11.5	12	5,400	APSG160E□□821MJB5S
-	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 1,500	8 × 20 10 × 16	8	7,500 7,700	APSG160E 152MH20S
-	1,800	10 × 16	<u>8</u> 8	7,700	APSG160E□□152MJ16S APSG160E□□182MJ16S
-	1,800	10 × 16	8	8,100	APSG160E□□182MJ16S APSG160E□□182MJ20S
-	2,200	10 × 20	8	8,100	APSG160E□□182MJ20S APSG160E□□222MJ20S
-	2,700	10 × 20	8	8,100	APSG160E□□272MJ20S
	120	6.3×5	20	3,200	APSG200E 121MF05S
-	180	6.3×8	18	3,460	APSG200E□□181MF08S
-	330	8×8	17	3,880	APSG200E□□331MH08S
20	390	8 × 11.5	14	4,970	APSG200E 391MHB5S
-	680	8 × 16	10	6,260	APSG200E□□681MH16S
	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
	100	6.3×8	28	2,780	APSG250E□□101MF08S
	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
	220	8×8	18	3,770	APSG250E□□221MH08S
	220	8 × 11.5	16	4,650	APSG250E□□221MHB5S
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 G81MJB5S
35	68	8 × 11.5	18	4,380	APSG350E 680MHB5S
	120	10 × 11.5	16	4,670	APSG350E□□121MJB5S

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

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