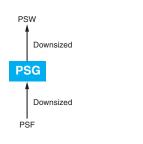
- High capacitance model has been introduced to the product range.
- Super low ESR, high ripple current capability
- Endurance: 15,000 to 20,000 hours at 105°C
- Rated voltage : 16 to 35Vdc
- RoHS2 Compliant
- Halogen Free



◆SPECIFICATIONS

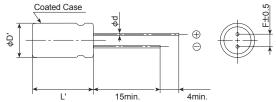
Items	Characteristics							
Category Temperature Range	-55 to +105°C							
Rated Voltage	16 to 35V _{dc}							
Capacitance Tolerance	±20% (M)	(at 20°C, 120)Hz)					
Leakage Current *Note		I=0.2CV or 500μA, whichever is greater Where, I: Max. leakage current (μA), C: Nominal capacitance (μF), V: Rated voltage (V) (at 20°C after 2 minutes)						
Dissipation Factor (tan δ)	0.12 max.	(at 20°C, 120)Hz)					
Low Temperature Characteristics (Max.Impedance Ratio)	$Z(-25^{\circ}C)/Z(+20^{\circ}C)$ ≤1.15 $Z(-55^{\circ}C)/Z(+20^{\circ}C)$ ≤1.25							
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 20,000 hours (20 to 35V : 15,000 hours) at 105°C.							
	Appearance	No significant damage						
	Capacitance change	≦±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	l					
Bias Humidity Test	The following specificatio 90 to 95% RH for 1,000 h	ons shall be satisfied when the capacitors are restored to 20°C after subjecting them to DC voltage at 60 hours.	℃,					
	Appearance	No significant damage	l					
	Capacitance change	≦±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 through a protective resistor(R=1kΩ) and discharge for 5 minutes 30 seconds.							
	Rated voltage (Vdc)	16 20 25 35						
	Surge voltage (Vdc)	18 23 29 40						
	Appearance	No significant damage						
	Capacitance change	≦±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						

*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℃.

◆DIMENSIONS [mm]

●Terminal Code : E

F05,F08,H08



HB5,Н16	,H20,JB5,J	16,J20		
, Q ϕ	pated Case	P *	÷ ÷	F±0.5
	L'	' 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+1.0max. (Note1)			L+1.5max.					

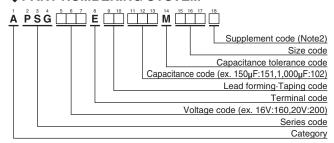
Note1: L+1.2 max. for $16V270 \mu$ F (Rated ripple current 5,080mArms), for $16V330 \mu$ F (Rated ripple current 5,080mArms).







◆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		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
	330	6.3×8	15	3,800	APSG160E□□331MF08S
Ī	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
İ	560	8 × 11.5	14	4,970	APSG160E□□561MHB5S
İ	680	8 × 11.5	8	6,100	APSG160E□□681MHB5J
	680	8×11.5	14	4,970	APSG160E□□681MHB5S
16	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	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	10×10	8	8,100	APSG160E 182MJ20S
	2,200	10×20	8	8,100	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 121WI 033
	330	8×8	17	3,880	APSG200E 331MH08S
20	390	8 × 11.5	14	4,970	APSG200E 331MH083
	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□□101MF08S
	150	6.3×8	28	2,780	APSG250E□□121MF08S APSG250E□□151MF08S
	180	8×8	18		APSG250E□□151MF08S APSG250E□□181MH08S
	180	8 × 11.5	16	3,770 4,650	
	220		18		APSG250E 181MHB5S
		8×8		3,770	APSG250E 221MH08S
25	220 270	8 × 11.5	16	4,650 3,770	APSG250E 221MHB5S
25		8×8	18		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□□681MJB5S
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



- 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.
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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