



- Super low ESR, high ripple current capability
- Added 35V
- Endurance: 15,000 to 20,000 hours at 105°C
- Rated voltage: 16 to 35Vdc
- Halogen Free





SPECIFICATIONS

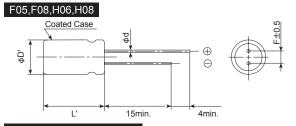
Items	Characteristics								
Category Temperature Range	-55 to +105℃								
Rated Voltage	16 to 35V _{dc}								
Capacitance Tolerance	±20% (M)								
Surge Voltage	Rated voltage(V) × 1.15		(at 105℃)						
Leakage Current *Note		I=0.2CV or 500μA, whichever is greater Where, I : Leakage current (μA), 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°C)/Z(+20°C)≦1.15 Z(-55°C)/Z(+20°C)≦1.25	Z(-25°C)/Z(+20°C)≦1.15							
Endurance	The following specification (20 to 35V: 15,000 hours		e restored to 20°C after the rated voltage is applied for 20,000 hours						
	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								
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. (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=1kΩ) and discharge for 5 minutes 30 seconds.								
	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							
Failure Rate	0.5% per 1,000 hours maximum (Confidence level 60% at 105℃)								

*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



185,H16	H16,H20,JB5,J16	0,J2U			
1	Coated Case		Θ	F±0.5	

Size code	F05	F08	H06	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		
φD'			φD+0.5max.							
L'	L	L+1.0max. (Note1)				L+1.5	5max.			

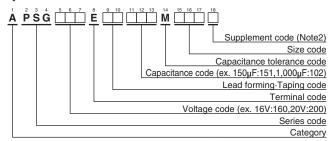
Note1: L+1.2 max. for 16V270µF (Rated ripple current 5,080mArms).







◆PART NUMBERING SYSTEM



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

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

STANDARD RATINGS

WV (V _{dc})	Cap Case size (μF) 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	
	270	8×6	22	3,300	APSG160E□□271MH06S	
	470	8×8	8	5,400	APSG160E□□471MH08J	
	470	8×8	16	4,000	APSG160E□□471MH08S	
	560	8×11.5	8	6,100	APSG160E□□561MHB5J	
16	560	8 × 11.5	14	4,970	APSG160E□□561MHB5S	
10	820	8×16	8	7,000	APSG160E□□821MH16S	
	820	10×11.5	12	5,400	APSG160E□□821MJB5S	
	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	
	1,500	10×16	8	7,700	APSG160E□□152MJ16S	
	1,800	10×20	8	8,100	APSG160E□□182MJ20S	
	2,200	10 × 20	8	8,100	APSG160E□□222MJ20S	
	120	6.3×5	20	3,200	APSG200E□□121MF05S	
	180	6.3×8	18	3,460	APSG200E□□181MF08S	
20	330	8×8	17	3,880	APSG200E□□331MH08S	
	390	8×11.5	14	4,970	APSG200E□□391MHB5S	
	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	
	180	8×8	18	3,770	APSG250E□□181MH08S	
25	180	8 × 11.5	16	4,650	APSG250E□□181MHB5S	
20	220	8 × 11.5	16	4,650	APSG250E□□221MHB5S	
	330	10 × 11.5	14	5,000	APSG250E□□331MJB5S	
	390	10 × 11.5	14	5,000	APSG250E□□391MJB5S	
	560	10 × 11.5	14	5,000	APSG250E□□561MJB5S	
35	68	8×11.5	18	4,380	APSG350E□□680MHB5S	
35	120	10 × 11.5	16	4,670	APSG350E□□121MJB5S	

 \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	