



Super low ESR, high ripple current capability

■ Endurance: 2,000 to 5,000 hours at 105°C

● RoHS Compliant O Halogen Free





SPECIFICATIONS

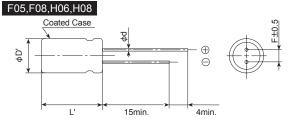
Items	Characteristics						
Category Temperature Range	−55 to +105°C						
Rated Voltage	16 to 25Vdc						
Capacitance Tolerance	±20% (M) (at 20℃, 120Hz)						
Surge Voltage	Rated voltage(V)×1.15		(at 105℃)				
Leakage Current	I=0.2CV or 500μA, whichever is greater						
*Note	Where, I : Leakage current (μ A), C : Nominal capacitance (μ F), V : Rated voltage (V) (at 20°C after 2 minutes)						
Dissipation Factor (tan δ)	0.12 max. (at 20°C, 120Hz)						
Low Temperature	Z(-25°C)/Z(+20°C)≦1.1	5					
Characteristics	Z(-55°C)/Z(+20°C)≦1.2	5					
(Max.Impedance Ratio)			(at 100kHz)				
Endurance	The following specificati	ons shall be satisfied when the capacitors are restor	red to 20℃ after the rated voltage is applied for 5,000 hours				
	(20, 25V : 2,000 hours)	at 105℃.					
	Appearance	No significant damage					
	Capacitance change	≦±20% of the initial value					
	D.F. (tanδ)	≦The initial specified value					
	ESR	≦150% of the initial specified value					
	Leakage current	≦The initial specified value					
Bias Humidity Test	Imidity Test The following specifications shall be satisfied when the capacitors are restored to 20°C after subjecting them to DC voltage at 90 to 95% RH for 1,000 hours.						
	Appearance	No significant damage					
	Capacitance change	≦±20% of the initial value					
	D.F. (tanδ)	≦The initial specified value					
	ESR	≦150% of the initial specified value					
	Leakage current	≦The initial specified value					
Surge Voltage Test	est The capacitors shall be subjected to 1,000 cycles each consisting of charge with the surge voltage specified at 105°C for 30						
	nds.						
	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 m	aximum (Confidence level 60% at 105°C)					

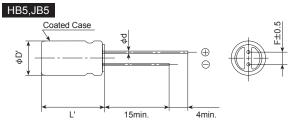
*Note: If any doubt arises, measure the leakage current after the following voltage treatment.

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	H06	H08	HB5	JB5
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+1.0max. (Note1)			L+1.5max.		

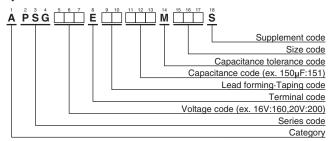
Note1: L+1.2 max. for 16V270µF (Rated ripple current 5,080mArms).







◆PART NUMBERING SYSTEM



(Note2): PSG series, 16V270μF (Rated ripple current 5,080mArms) have supplement code "J".

Terminal and terminal plating are the same as all other inPSG series.

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

STANDARD RATINGS

WV (Vdc)	Cap (µF)	Case size φD×L (mm)	ESR (mΩ max./20°C, 100k to 300kHz)	Rated ripple current (mArms/105℃, 100kHz)	Part No.
16	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
10	470	8×8	16	4,000	APSG160E□□471MH08S
	560	8×11.5	14	4,970	APSG160E□□561MHB5S
	820	10×11.5	12	5,400	APSG160E□□821MJB5S
	1,000	10×11.5	12	5,400	APSG160E□□102MJB5S
	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
25	82	6.3×8	28	2,780	APSG250E□□820MF08S
	180	8×8	18	3,770	APSG250E□□181MH08S
	180	8×11.5	16	4,650	APSG250E□□181MHB5S
	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

 $\hfill\square$: Enter the appropriate lead forming or taping code.