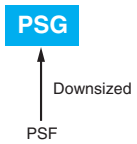
CONDUCTIVE POLYMER ALUMINUM SOLID CAPACITORS

Radial Lead

New!

NPCAP™-PSG Series

- Super low ESR, high ripple current capability
- Endurance: 2,000 to 5,000 hours at 105℃
- Rated voltage : 16 to 20Vdc
- **RoHS Compliant**
- **Halogen Free**



◆SPECIFICATIONS

Items	Characteristics	
Category Temperature Range	−55 to +105℃	
Rated Voltage	16 to 20Vdc	
Capacitance Tolerance	P20% (M)	(at 20℃, 120Hz)
Surge Voltage	Rated voltage(V)B1.15	(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℃ after 2 minutes)
Dissipation Factor (tanδ)	0.12 max.	(at 20℃, 120Hz)
Low Temperature Characteristics (Max.Impedance Ratio)	Z(−25℃)/Z(+20℃)≦1.15 Z(−55℃)/Z(+20℃)≦1.25	(at 100kHz)
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage is applied for 5,000 hours (20V : 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	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjecting them to DC voltage at 60℃, 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	The capacitors shall be subjected to 1,000 cycles each consisting of charge with the surge voltage specified at 105℃ 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. (tanδ)	≦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℃.

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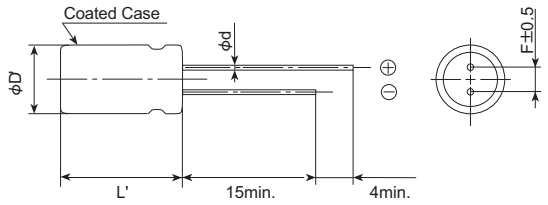
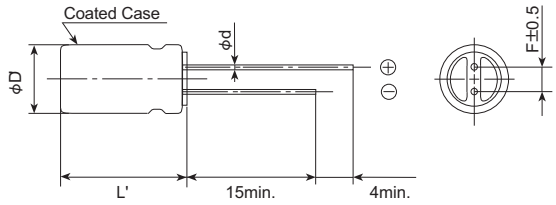
◆DIMENSIONS [mm]

●Terminal Code : E

F05,F08,H06,H08



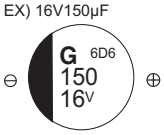
HB5,JB5



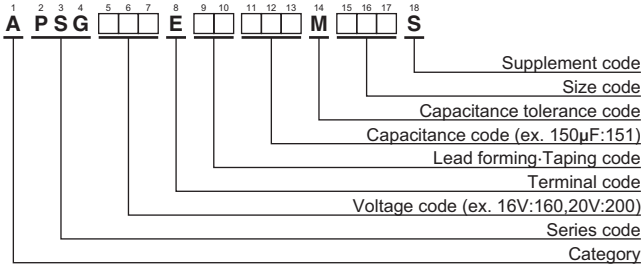
Size code	F05	F08	H06	H08	HB5	JB5
φD	6.3		8.0			10.0
φd	0.45	0.6				
F	2.5		3.5			5.0
φD'	φD+0.5max.					
L'	L+1.0max.				L+1.5max.	

◆MARKING

EX) 16V150μF



◆PART NUMBERING SYSTEM



Please refer to “Product code guide (conductive polymer type)”

◆STANDARD RATINGS

WV(Vdc)	Cap(μF)	Case size φD×L(mm)	ESR (mΩ max./20℃, 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	15	3,800	APSG160E□□271MF08S
	270	8×6	22	3,300	APSG160E□□271MH06S
	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
20	120	6.3×5	20	3,200	APSG200E□□121MF05S

□□ : Enter the appropriate lead forming or taping code.