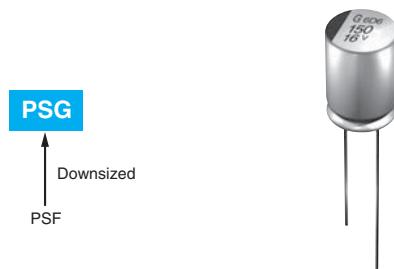


New!
NPCAP™-PSG Series

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



◆ SPECIFICATIONS

Items	Characteristics											
Category												
Temperature Range	-55 to +105°C											
Rated Voltage	16 to 20V _{dc}											
Capacitance Tolerance	P20% (M)											
Surge Voltage	Rated voltage(V)B1.15											
Leakage Current	I=0.2CV or 500μA, whichever is greater *Note Where, I : Leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V)											
Dissipation Factor (tan δ)	0.12 max. (at 20°C, 120Hz)											
Low Temperature Characteristics (Max.Impedance Ratio)	Z(-25°C)/Z(+20°C)≤1.15 Z(-55°C)/Z(+20°C)≤1.25 (at 100kHz)											
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 5,000 hours (20V : 2,000 hours) at 105°C. <table border="1"> <tr> <td>Appearance</td> <td>No significant damage</td> </tr> <tr> <td>Capacitance change</td> <td>≤±20% of the initial value</td> </tr> <tr> <td>D.F. (tan δ)</td> <td>≤The initial specified value</td> </tr> <tr> <td>ESR</td> <td>≤150% of the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>≤The initial specified value</td> </tr> </table>		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
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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											
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. <table border="1"> <tr> <td>Appearance</td> <td>No significant damage</td> </tr> <tr> <td>Capacitance change</td> <td>≤±20% of the initial value</td> </tr> <tr> <td>D.F. (tan δ)</td> <td>≤The initial specified value</td> </tr> <tr> <td>ESR</td> <td>≤150% of the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>≤The initial specified value</td> </tr> </table>		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
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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. <table border="1"> <tr> <td>Appearance</td> <td>No significant damage</td> </tr> <tr> <td>Capacitance change</td> <td>≤±20% of the initial value</td> </tr> <tr> <td>D.F. (tan δ)</td> <td>≤The initial specified value</td> </tr> <tr> <td>ESR</td> <td>≤150% of the initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>≤The initial specified value</td> </tr> </table>		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
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°C)											

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

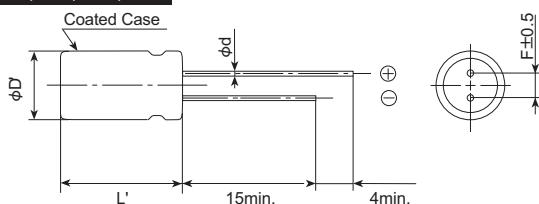
Voltage treatment : DC rated voltage is applied to the capacitors for 120 minutes at 105°C.

New!
NPCAP™-PSG Series

◆DIMENSIONS [mm]

●Terminal Code : E

F05,F08,H06,H08



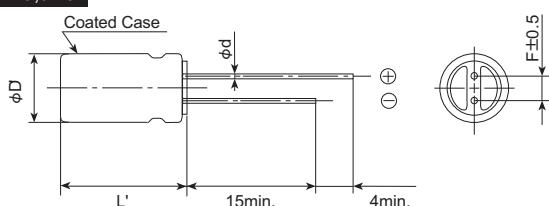
Size code	F05	F08	H06	H08	HB5	JB5
ΦD	6.3		8.0		10.0	
Φd	0.45		0.6			
F	2.5		3.5		5.0	
ΦD'			ΦD+0.5max.			
L'			L+1.0max.		L+1.5max.	

◆MARKING

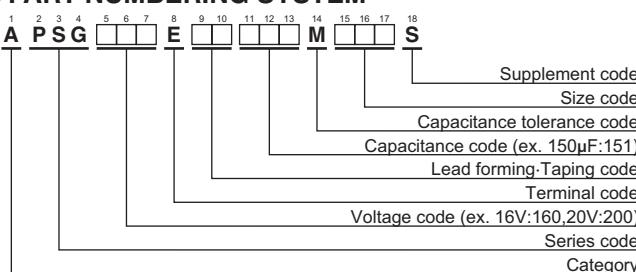
EX) 16V150μF



HB5,JB5



◆PART NUMBERING SYSTEM



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

◆STANDARD RATINGS

WV(V _{dc})	Cap(μF)	Case size ΦDXL(mm)	ESR (mΩ max./20°C, 100k to 300kHz)	Rated ripple current (mA _{rms} /105°C, 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.

Mouser Electronics

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[APSG160ELL471MH08S](#) [APSG160ELL561MHB5S](#) [APSG160ELL821MJB5S](#) [APSG200ELL121MF05S](#)
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