



- •Super low ESR, high ripple current capability
- ●Endurance: 2,000 to 5,000 hours at 105°C
- ●Rated voltage: 16 to 25Vdc
- ●RoHS Compliant
- Halogen Free





SPECIFICATIONS

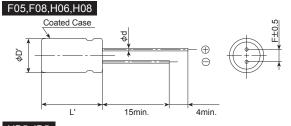
Items	Characteristics					
Category Temperature Range	−55 to +105°C					
Rated Voltage	16 to 25Vdc	16 to 25V _{dc}				
Capacitance Tolerance	±20% (M)		(at 20℃, 120Hz)			
Surge Voltage	Rated voltage(V)×1.15		(at 105°C)			
Leakage Current	I=0.2CV or 500μA, whichever is greater					
*Note	Where, I: Leakage 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	Z(-25°C)/Z(+20°C)≦1.15					
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°C 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	The following specificat	ions shall be satisfied when the capacitors are rest	tored 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. $(tan \delta)$	≦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($R=1k\Omega$) and discharge for 5 minutes 30 seconds.					
	Appearance	No significant damage				
	Capacitance change	≦±20% of the initial value				
	D.F. $(tan \delta)$	≦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	naximum (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℃.

◆DIMENSIONS [mm]

●Terminal Code : E



HB5,JB5				
Coate	ed Case	15min.	⊕ ⊖ 4min.	FT-0.5

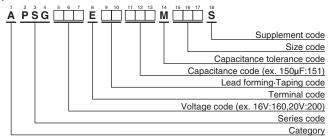
Size code	F05	F08	H06	H08	HB5	JB5
φD	6.3		8.0		10.0	
φd	0.45	0.6				
F	2.5			3.5		5.0
φD'	φD+0.5max.					
L'	L+1.0max. L+1.5max.			max.		







◆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°C, 100k to 300kHz)	Rated ripple current (mArms/105℃, 100kHz)	Part No.
	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
16	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
20	330	8×8	17	3,880	APSG200E□□331MH08S
20	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
	180	8×8	18	3,770	APSG250E□□181MH08S
25	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

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