

- Super low ESR, high temperature resistance
- Large capacitance & Improved high ripple current capability
- Rated voltage range: 2.5 to 35Vdc
- Endurance: 15,000 hours at 105°C
- Suitable for DC-DC converters, voltage regulators and decoupling applications
 For computer motherboards
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- RoHS Compliant
- Halogen Free



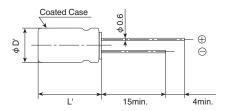
SPECIFICATIONS

Items	Characteristics					
Category Temperature Range	-55 to +105℃					
Rated Voltage Range	2.5 to 35V _{dc}					
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)					
Surge Voltage	Rated voltage ×1.15 (at 105℃)					
Leakage Current *Note	I=0.2CV (Rated voltage 2.5 to 25V _∞) / I=0.5CV (Rated voltage 35V _∞) Where, I : Max. 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°C, 120Hz)					
Low Temperature Characteristics (Max. Impedance Ratio)	$Z(-25^{\circ})/Z(+20^{\circ}) \le 1.15$ $Z(-55^{\circ})/Z(+20^{\circ}) \le 1.25$ (at 100kHz)					
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 15,000 hours at 105°C.					
	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	≦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. (tan δ)	≦150% of 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)	≤150% of 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





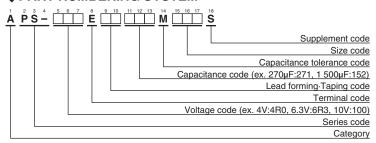
Size code	HB5	JC5	
φD	8	10	
ϕ d	0.6		
F	3.5	5.0	
φ D '	φ D+0.5max		
L'	L+1.5max.		







◆PART NUMBERING SYSTEM



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

STANDARD RATINGS

WV (V _{dc})	Cap (µF)	Case size φ D×L(mm)	ESR (m Ω max./20°C, 100k to 300kHz)	Rated ripple current (mArms/105℃, 100kHz)	Part No.
2.5	680	8 × 11.5	10	5,230	APS-2R5E□□681MHB5S
	820	8 × 11.5	10	5,230	APS-2R5E□□821MHB5S
	1,500	10 × 12.5	8	5,500	APS-2R5E□□152MJC5S
	560	8 × 11.5	10	5,230	APS-4R0E□□561MHB5S
	820	10 × 12.5	8	5,500	APS-4R0E□□821MJC5S
4	1,000	10 × 12.5	8	5,500	APS-4R0E□□102MJC5S
	1,200	10 × 12.5	8	5,500	APS-4R0E□□122MJC5S
	390	8 × 11.5	12	4,770	APS-6R3E□□391MHB5S
	470	8×11.5	12	4,770	APS-6R3E□□471MHB5S
6.3	680	10 × 12.5	10	5,500	APS-6R3E□□681MJC5S
	820	10 × 12.5	10	5,500	APS-6R3E□□821MJC5S
	1,000	10 × 12.5	10	5,500	APS-6R3E□□102MJC5S
	270	8×11.5	14	4,420	APS-100E□□271MHB5S
10	330	8 × 11.5	14	4,420	APS-100E□□331MHB5S
	470	10 × 12.5	12	5,300	APS-100E□□471MJC5S
	560	10 × 12.5	12	5,300	APS-100E□□561MJC5S
16	100	8 × 11.5	16	4,360	APS-160E□□101MHB5S
	180	8 × 11.5	16	4,360	APS-160E□□181MHB5S
	270	10 × 12.5	14	5,050	APS-160E□□271MJC5S
	330	10 × 12.5	14	5,050	APS-160E□□331MJC5S
20	100	8 × 11.5	24	3,320	APS-200E□□101MHB5S
	150	10 × 12.5	20	4,320	APS-200E□□151MJC5S
OF.	68	8 × 11.5	24	3,320	APS-250E□□680MHB5S
25	100	10 × 12.5	20	4,320	APS-250E□□101MJC5S
35	18	8 × 11.5	34	2,830	APS-350E□□180MHB5S
35	33	10 × 12.5	30	3,270	APS-350E□□330MJC5S

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

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