



•Super low ESR, high temperature resistance

- •Large capacitance & Improved high ripple current capability
- •Rated voltage range : 2.5 to 25Vdc
- ●Endurance : 2,000 hours at 105℃
- •Suitable for DC-DC converters, voltage regulators and decoupling applications
- For computer motherboards

RoHS Compliant

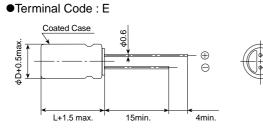
♦SPECIFICATIONS

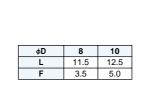
Surge Voltage Rated voltage(V)×1.15 (at 105 Leakage Current I=0.2CV (max.) Where, I : Leakage current (µA), C : Nominal capacitance (µF), V : Rated voltage (Vdc) (at 20°C after 2 minut Dissipation Factor (tano) 0.12 max. (at 20°C, 120) Low Temperature Characteristics Max. impedance ratio at 100kHz to the 20°C value 2(-25°C)/2(+20°C)≤1.15 Z(-55°C)/2(+20°C)≤1.25 (at 20°C, 120) Endurance The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 2,000 ho at 105°C. Appearance No significant damage Capacitance change ≤±20% of the initial specified value D.F. (tano) ≤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 90 to 95% RH for 500 hours. Appearance No significant damage Single Humidity Test The following specifications shall be satisfied when the capacitors are restored to 20°C after subjecting them to DC voltage at 60 90 to 95% RH for 500 hours.	Characteristics					
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Capacitance change ≤±20% of the initial measured value						
D.F. $(\tan \delta)$ $\leq 150\%$ of the initial specified value						
ESR ≦150% of the initial specified value						
Leakage current						
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 second	nds					
through a protective resistor ($R=1k\Omega$) and discharge for 5 minutes 30 seconds.	through a protective resistor(R=1k Ω) and discharge for 5 minutes 30 seconds.					
Appearance No significant damage						
Capacitance change $\leq \pm 20\%$ of the initial measured value						
D.F. $(\tan \delta)$ $\leq 150\%$ of the initial specified value						
ESR ≦150% of the initial specified value						
Leakage current Solution of the initial specified value						
Failure Rate 1% per 1,000 hours maximum (Confidence level 60% at 105°C)	1% 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.

◆DIMENSIONS [mm]





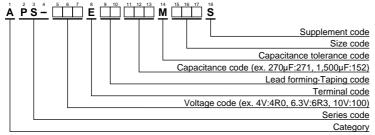
MARKING







♦PART NUMBERING SYSTEM



Please refer to "A guide to global code (conductive polymer type)"

STANDARD RATINGS

WV(Vdc)	Cap(µF)	Case size ¢D×L(mm)	ESR (mΩmax/20℃, 100k to 300kHz)	Rated ripple current (mArms/105℃, 100kHz)	Part No.
2.5	680	8×11.5	10	5,230	APS-2R5EDD681MHB5S
	1,500	10×12.5	8	5,500	APS-2R5EDD152MJC5S
4	560	8×11.5	10	5,230	APS-4R0E□□561MHB5S
	820	10×12.5	8	5,500	APS-4R0E□□821MJC5S
6.3	390	8×11.5	12	4,770	APS-6R3EDD391MHB5S
	680	10×12.5	10	5,500	APS-6R3EDD681MJC5S
10	270	8×11.5	14	4,420	APS-100EDD271MHB5S
	470	10×12.5	12	5,300	APS-100EDD471MJC5S
16	180	8×11.5	16	4,360	APS-160EDD181MHB5S
	330	10×12.5	14	5,050	APS-160EDD331MJC5S
20	100	8×11.5	24	3,320	APS-200EDD101MHB5S
	150	10×12.5	20	4,320	APS-200EDD151MJC5S
25	68	8×11.5	24	3,320	APS-250EDD680MHB5S
	100	10×12.5	20	4,320	APS-250EDD101MJC5S

 $\Box\Box$: Lead forming code and taping code