



- •Super low ESR, high temperature resistance
- Large capacitance & Improved high ripple current capability
- ●Rated voltage range: 2.5 to 25Vdc (20/25V newly added)
- ●2000 hours at 105°C
- Suitable for DC-DC converters, voltage regulators and decoupling applications
 For computer motherboards

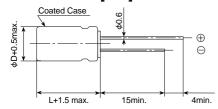


SPECIFICATIONS

Items	Characteristics					
Category Temperature Range	-55 to +105℃					
Rated Voltage Range	2.5 to 25Vdc					
Capacitance Tolerance	±20% (M)	(at 20°C, 120Hz)				
Surge Voltage	Rated voltage×1.15V		(at 105℃)			
Leakage Current	I=0.2CV (max.)					
*Note	Where, I: Leakage current (μA), C: Nominal capacitance (μF), V: Rated voltage (Vdc) (at 20°C after					
Dissipation Factor (tanδ)	0.12 max. (at 20°C, 120					
Low Temperature	Max. impedance ratio at 100kHz to the 20°C value					
Characteristics	Z(-25°C)/Z(+20°C)≦1.15					
	Z(-55°C)/Z(+20°C)≦1.25	5				
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage is applied for 2000 hours at 105℃.					
	Appearance	No significant damage				
	Capacitance change	≤±20% of the initial measured value				
	D.F. (tanδ)	≦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°C after subjecting them to DC voltage at 60°C,					
	90 to 95% RH for 500 hours.					
	Appearance	No significant damage				
	Capacitance change	≤±20% of the initial measured value				
	D.F. (tanδ)	≦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 1000 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 measured value				
	D.F. (tanδ)	≦150% of the initial specified value				
	ESR	≦150% of the initial specified value				
	Leakage current	≦The initial specified value				
Failure Rate	1% per 1000 hours max	imum (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]





φD	8	10	
L	11.5	12.5	
F	3.5	5.0	

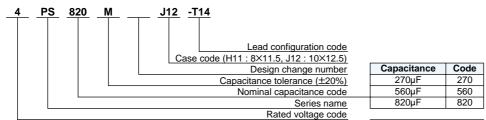
◆MARKING







◆PART NUMBERING SYSTEM



Lead configuration code

T14: Ammo pack for ϕ 10(F=5.0)

T15: Ammo pack for ϕ 8(F=3.5)

E5 : Cut lead (Lead length C=3.5±0.5mm)

*Regarding to taping specifications and cut/formed lead, please consult us.

Rated voltage	Code
2.5V	2R5
4V	4
6.3V	6
10V	10
16V	16
20V	20
25V	25

♦STANDARD RATINGS

Case size φD×L(mm)	Rated voltage (Vdc)	Nominal Capacitance (μF)	ESR (mΩmax./20℃, 100k to 300kHz)	Ripple current (mArms max./ 105℃,100kHz)	Part Number
8×11.5	2.5	680	10	5,230	2R5PS680MH11
	4	560	10	5,230	4PS560MH11
	6.3	390	12	4,770	6PS390MH11
	10	270	14	4,420	10PS270MH11
	16	180	16	4,360	16PS180MH11
	20	100	24	3,320	20PS100MH11
	25	68	24	3,320	25PS68MH11
10×12.5	2.5	1,500	8	5,500	2R5PS1500MJ12
	4	820	8	5,500	4PS820MJ12
	6.3	680	10	5,500	6PS680MJ12
	10	470	12	5,300	10PS470MJ12
	16	330	14	5,050	16PS330MJ12
	20	150	20	4,320	20PS150MJ12
	25	100	20	4,320	25PS100MJ12