

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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- •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

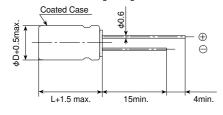


SPECIFICATIONS

Items	Characteristics						
Category Temperature Range	−55 to +105°C						
Rated Voltage Range	2.5 to 25V _{dc}						
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)						
Surge Voltage	Rated voltage×1.15V (at 105°C)						
Leakage Current	I=0.2CV (max.)						
*Note	Where, I : Leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (Vdc) (at 20°C after 2 minutes						
Dissipation Factor (tanδ)	0.12 max. (at 20°C, 120Hz)						
Low Temperature	Max. impedance ratio at 100kHz to the 20℃ value						
Characteristics	Z(-25°C)/Z(+20°C)≦1.15	·					
	Z(-55°C)/Z(+20°C)≦1.25						
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℃ 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 measured value					
	D.F. $(tan\delta)$	≦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

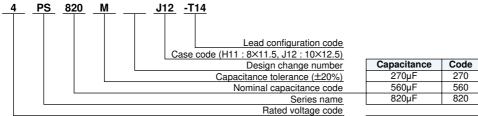








◆PART NUMBERING SYSTEM



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