

Positive temperature coefficient (PTC) thermistor

MZ11A 型灯丝预热用PTC热敏电阻器

MZ11A Filament Preheating PTC Thermistors

● 应用范围 Applications

用于各种荧光灯电子镇流器、电子节能灯中，不必改动线路，将适当的热敏电阻器直接跨接在灯管的谐振电容器两端，可以变电子镇流器、电子节能灯的硬启动为预热启动，使灯丝的预热时间达0.4-0.2秒，可延长灯管寿命三倍以上。

It can be applied in the electronic ballast of kinds of fluorescent lamps and electronic energy-saving lamps. No necessity to modify the circuitry. If proper thermistor is parallel connected on the two ends of resonant capacitor of lamps, cold startup of electronic ballast and electronic energy-saving lamps will turn into the Preheatstartup which can make the Preheatingtime reach 0.4-2S and extend the life of service to three times of the primary.

● 特点

◎ 利用材料PTC特性制作而成，产品体积小、耐电压高，寿命长、正常工作时功耗小。

Characteristics

◎ Execution utilizing the characteristic of PTC material, Small size of product, High voltage resistance, Longevity of service, Low power when normally working.

● 产品标志说明 Specification



注：① 型号 Model

② 开关温度: Temperature of switch

50-50°C 75-75°C 85-85°C 105-105°C 120-120°C

③ 类型代号 Type code

S-微型 Small type A-基本型 Basic type HV-高压型 High voltage type

B-加强型 Strengthen type BHV-超强型 Super strong type

④ 额定零功率电阻 Rated zero power resistance

102-1000Ω 68R-68Ω

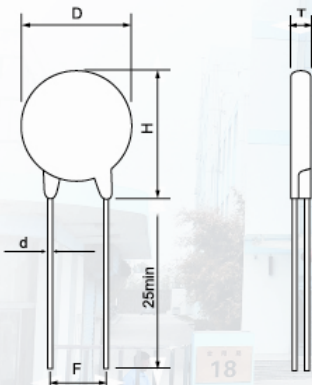
⑤ 电阻允差 Tol. of resistance

N-±30% V-±25% M-±20% K-±10% X-其它else

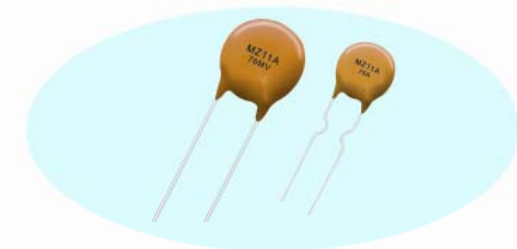
⑥ 引线形状 shape of lead

U-内弯 in-formed S-直形 straight A-轴弯 axis wind

● 外形结构和尺寸 Dimensions(mm)



规格 Part No.	D max	T max	F ± 1	D ± 0.05
S	4	4.5	5	0.5
L	5	4.5	5	0.6
A	6	4.5	5	0.6
HV	6	5	5	0.6
B	8	4.5	5	0.6
BHV	8	5	5	0.6
LB	9	4.5	5	0.6
M	11.5	5	5	0.6
SL	14.5	5	7.5	0.8
ML	18.5	5	7.5	0.8
ML	21	5	7.5	0.8



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● 主要技术参数 Main Techno-Parameter

序号 No	型号 Part No	额定零功率电阻值 (Ω) Rated Zero-power Resistance Rn(Ω)	耐电压 (Vac) Break Down Vol. (Vac)	最大工作电流 (mA) Max.W.C.Imax (mA)	开关温度 (℃) Switch Temp.Tsw (℃)	外形尺寸(mm) Dimensions(mm)			
						Dmax	Tmax	d	
01	MZ11A-50S101NU	100 ± 30%	400	200	50 ± 7	4	4.5	0.5	
02	MZ11A-50S151NU	150 ± 30%	400						
03	MZ11A-50S471NU	470 ± 30%	600						
04	MZ11A-50S152NU	1500 ± 30%	600	100	75 ± 7	4	4.5	0.5	
05	MZ11A-75S151NU	100 ± 30%	400						
06	MZ11A-75S681NU	680 ± 30%	600						
07	MZ11A-75S152NU	1500 ± 30%	600	100	105 ± 7	4	4.5	0.5	
08	MZ11A-105S68RNU	68 ± 30%	360						
09	NZ11A-105S471NU	470 ± 30%	500						
10	MZ11A-75S152NU	1500 ± 30%	600	100	50 ± 7	6	4.5	0.6	
11	M11A-50A151NU	150 ± 30%	500						
12	MZ11A-50A471NU	470 ± 30%	600						
13	MZ11A-50A681NU	680 ± 30%	600	300					
14	MZ11A-50A152NU	1500 ± 30%	600	150	75 ± 7	6	4.5	0.6	
15	MZ11A-75A151NU	150 ± 30%	500						
16	MZ11A-75A471NU	470 ± 30%	600						
17	MZ11A-75A681NU	680 ± 30%	600	300					
18	MZ11A-75A102NU	1000 ± 30%	600	400	105 ± 7	6	5.0	0.6	
19	MZ11A-75A152NU	1500 ± 30%	600						
20	MZ11A-105A101NU	100 ± 30%	400						
21	MZ11A-105A151NU	150 ± 30%	400						
22	MZ11A-105A471NU	470 ± 30%	600	400	50 ± 7	6	5.0	0.6	
23	MZ11A-105A681NU	680 ± 30%	600						
24	MZ11A-50HV151NU	150 ± 30%	750						
25	MZ11A-50HV471NU	470 ± 30%	900	250	75 ± 7	6	5.0	0.6	
26	MZ11A-50HV6841NU	680 ± 30%	900						
27	MZ11A-50HV152NU	1500 ± 30%	900						
28	MZ11A-75HV151NU	150 ± 30%	750	400	50 ± 7	8	4.5	0.6	
29	MZ11A-75HV471NU	470 ± 30%	900						
30	MZ11A-75HV681NU	680 ± 30%	900						250
31	MZ11A-75HV152NU	1500 ± 30%	900	150	800	50 ± 7	8	4.5	0.6
32	MZ11A-50B101NU	100 ± 30%	500						
33	MZ11A-50B151NU	150 ± 30%	500						
34	MZ11A-50B471NU	470 ± 30%	600	450	800	105 ± 7	8	4.5	0.6
35	MZ11A-50B681NU	680 ± 30%	600						
36	MZ11A-105B101NU	100 ± 30%	500						
37	MZ11A-105B151NU	150 ± 30%	500	450	105 ± 7	8	4.5	0.6	
38	MZ11A-105B471NU	470 ± 30%	600						

注：当预热时间偏短时，可选阻值较低、居里点温度较高或体积较大的PTC热敏电阻器，反之亦然。另，我公司还可按用户的特殊要求供货。

Remark: If the Preheating time is too short, PTC thermistor of low resistance, high curiertemp.or big bulk should be selected, vice versa. Besides, Peculiar manufacture capable according to the demands of users.