

正温度系数(PTC)热敏电阻器

Positive Temperature Coefficient (PTC) Thermistor

MZ11A 型灯丝预热用PTC热敏电阻器

MZ11A Series PTC Thermistors for Filament Preheating

● 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0.2-0.4秒，可延长灯管寿命三倍以上。

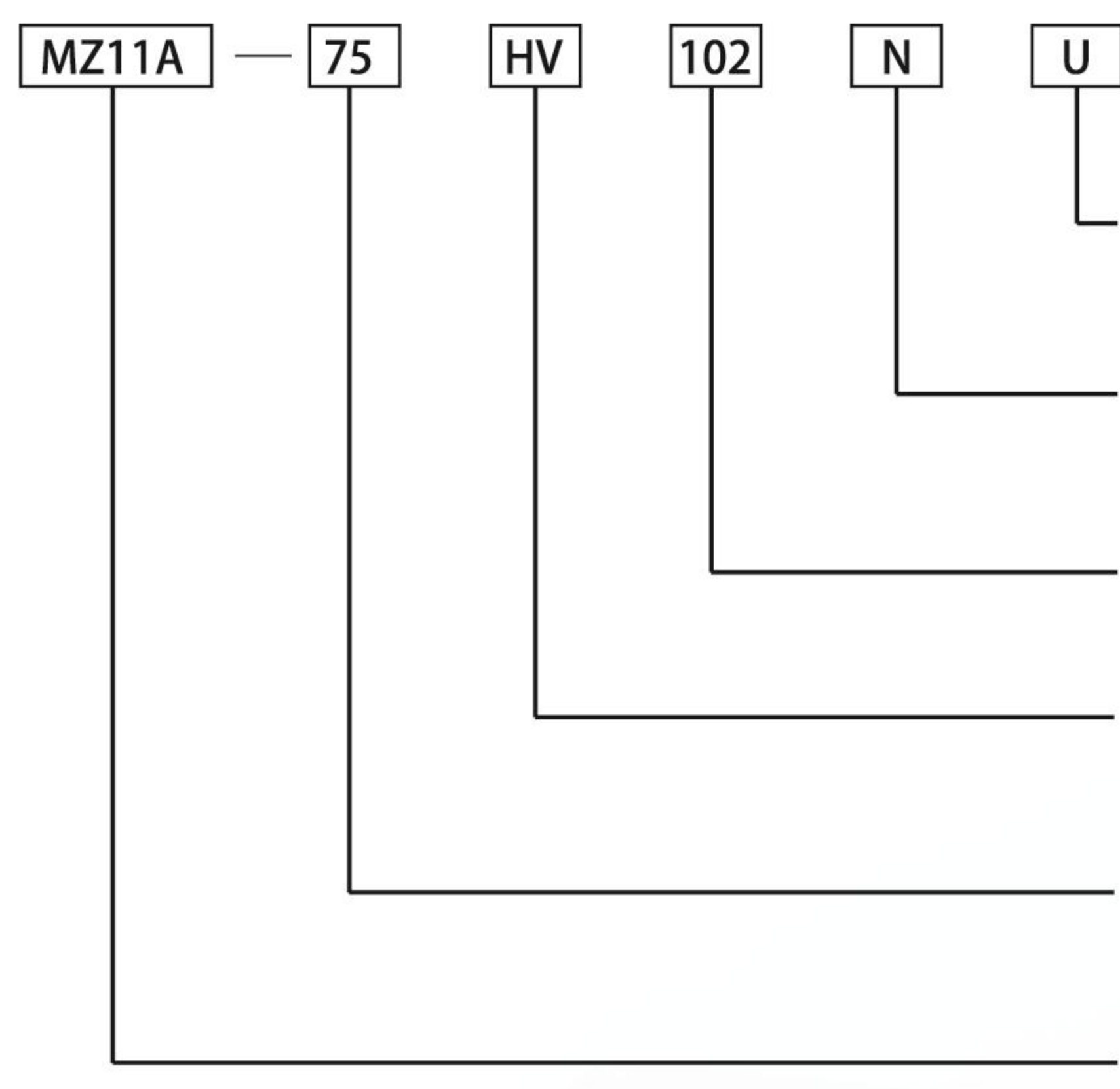
Used in various electronic ballasts and electronic energy-saving lamps. Without modifying the circuit, connect the appropriate PTC thermistor directly across the resonant capacitor at both ends of the lamp. This can transform the hard start of electronic ballasts and electronic energy-saving lamps into preheating start, reducing filament preheating time to 0.4-0.2 seconds and extending the lamp life by more than three times.

● 特点 Features

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。

Utilizing the characteristics of PTC materials, the product is compact, has high voltage resistance, long lifespan, and low power consumption during normal operation.

● 产品标志说明 Marking Instruction



引线形状: U- 内弯 S- 直形 A- 轴弯

Lead Shape: U- Inward Bent, S- Straight, A- Axial Bent

阻值允许偏差代号: N: $\pm 30\%$, V: $\pm 25\%$, M: $\pm 20\%$, K: $\pm 10\%$, X-其它

Allowable Resistance Value Tolerance Code: N: $\pm 30\%$, V: $\pm 25\%$, M: $\pm 20\%$, K: $\pm 10\%$, X-else

额定零功率电阻: 102: 1000 Ω 68R: 68 Ω

Rated Zero-Power Resistance: 102: 1000 Ω 68R: 68 Ω

类型代号: S: 微小型, A: 基本型, HV: 高压型, B: 加强型, BHV: 超强型

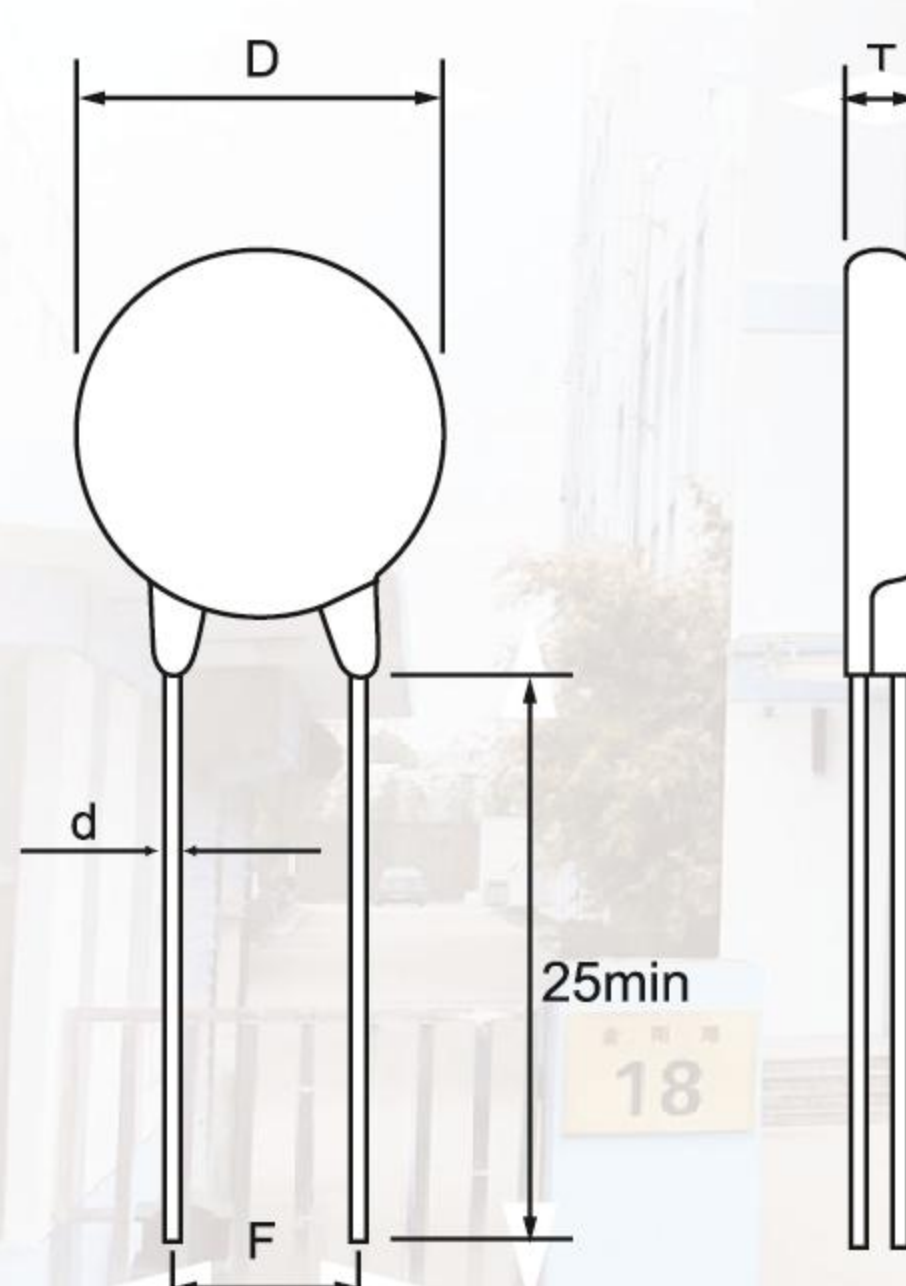
Type code: S: Micro Sized, A: Basic, HV: High Voltage, B: Enhanced, BHV: Superior Type

居里温度: 50-50 $^{\circ}\text{C}$, 75-75 $^{\circ}\text{C}$, 85-85 $^{\circ}\text{C}$, 105-105 $^{\circ}\text{C}$, 120-120 $^{\circ}\text{C}$

Curie Temperature: 50-50 $^{\circ}\text{C}$, 75-75 $^{\circ}\text{C}$, 85-85 $^{\circ}\text{C}$, 105-105 $^{\circ}\text{C}$, 120-120 $^{\circ}\text{C}$

型号 Type

● 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 Technical Specifications

序 号 No.	型 号 Part No.	额定零功率电阻值 Rated Zero-Power Resistance Value R25 (Ω)	耐电压 Voltage Withstand (VAC)	最大工作电流 Maximum Operating Current (mA)	居里温度 Curie Temperature (°C)	外形尺寸 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				
05	MZ11A-75S151NU	100±30%	400	200	75±7			
06	MZ11A-75S681NU	680±30%	600					
07	MZ11A-75S152NU	1500±30%	600			100		
08	MZ11A-105S68RNU	68±30%	360	200	105±7	4	4.5	0.5
09	MZ11A-105S471NU	470±30%	500					
10	MZ11A-75S152NU	1500±30%	600					
11	M11A-50A151NU	150±30%	500	400	50±7	6	4.5	0.6
12	MZ11A-50A471NU	470±30%	600					
13	MZ11A-50A681NU	680±30%	600					
14	MZ11A-50A152NU	1500±30%	600	150				
15	MZ11A-75A151NU	150±30%	500	400	75±7			
16	MZ11A-75A471NU	470±30%	600					
17	MZ11A-75A681NU	680±30%	600	300				
18	MZ11A-75A102NU	1000±30%	600					
19	MZ11A-75A152NU	1500±30%	600					
20	MZ11A-105A101NU	100±30%	400	400				
21	MZ11A-105A151NU	150±30%	400					
22	MZ11A-105A471NU	470±30%	600					
23	MZ11A-105A681NU	680±30%	600		300			
24	MZ11A-50HV151NU	150±30%	750	400	50±7	6	5.0	0.6
25	MZ11A-50HV471NU	470±30%	900					
26	MZ11A-50HV681NU	680±30%	900					
27	MZ11A-50HV152NU	1500±30%	900	150				
28	MZ11A-75HV151NU	150±30%	750	400	75±7			
29	MZ11A-75HV471NU	470±30%	900					
30	MZ11A-75HV681NU	680±30%	900			250		
31	MZ11A-75HV152NU	1500±30%	900			150		
32	MZ11A-50B101NU	100±30%	500	800	50±7	8	4.5	0.6
33	MZ11A-50B151NU	150±30%	500					
34	MZ11A-50B471NU	470±30%	600					
35	MZ11A-50B681NU	680±30%	600	300				
36	MZ11A-105B101NU	100±30%	500	800	105±7			
37	MZ11A-105B151NU	150±30%	500					
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。

Note: When the preheating time is relatively short, PTC thermistors with lower resistance values, higher Curie temperatures, or larger sizes can be selected. The opposite is also true.

Additionally, our company can supply products according to the specific requirements of customers.