



SONGTAI ELECTRONIC CO., LTD 临沂松泰电子有限公司

MZII A 型灯丝预热用 PTC 热敏电阻器

MZII A Filament Preheating PTC Thermistors

●应用范围 Application

用于各种荧光灯电子镇流器。电子节能灯中，不必建动线路。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 off lamps, cold startup of electronic ballast and electronic energy-saving lamps will turn into the Preheats startup which can make the Preheating time reach 0.4-25 and extend the life of service to three times of the primary,

●特点 Characteristics

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。

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

MZ11A	75	HV	102	N	U
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注：型号 Model

②-开关温度：Temperature of switch

50—50℃ 75—75℃ 85-85℃ 105-105℃ 120-120℃

⑧类型代号 Type code

S-微小型 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—10000 68R — 680

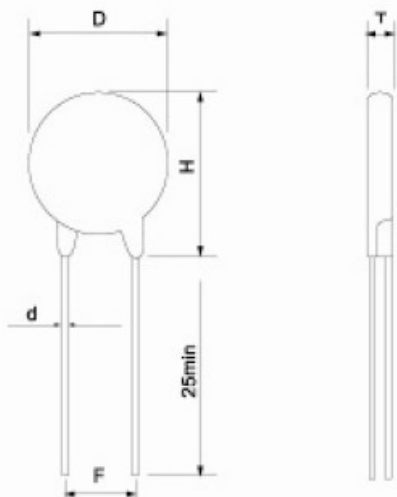
(电阻允差 Tol. of resistance

N-±30% V-±25% M-±20% K-±10% X-其它 else

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)



类型代号	Dmax	Tmax	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

序号 号	型号 Type	额定零功率 电阻值 (Ω) Rated zero power resistance	耐电压 (VAC)Break down Vol	最大可重复 通断电流 (mA) Max W. C	耐流能力 (mA) .	开关温度 (℃) Switch temp	外形尺寸 (mm)			
							Dmax	Tmax	d	
01	WMZ11A-50S68RNU	68±30%	360	200	300	50±7	4	4.5	0.5	
02	WMZ11A-50S101NU	100±30%	400							
03	WMZ11A-50S151NU	150±30%	400							
04	WMZ11A-50S221NU	220±30%	500							
05	WMZ11A-50S331NU	330±30%	600							
06	WMZ11A-50S471NU	470±30%	600							
07	WMZ11A-50S681NU	680±30%	600							
08	WMZ11A-50S102NU	1000±30%	600							
09	WMZ11A-50S152NU	1500±30%	600	140	210					
10	WMZ11A-50S222NU	2200±30%	600	90	135					
11	WMZ11A-50S332NU	3300±30%	600	60	90					
12	WMZ11A-50S472NU	4700±30%	600	40	60					
13	WMZ11A-75S68RNU	68±30%	360	200	300	75±7				
14	WMZ11A-75S101NU	100±30%	400							
15	WMZ11A-75S151NU	150±30%	400							
16	WMZ11A-75S221NU	220±30%	500							
17	WMZ11A-75S331NU	330±30%	500							
18	WMZ11A-75S471NU	470±30%	500							
19	WMZ11A-75S681NU	680±30%	600							
20	WMZ11A-75S102NU	1000±30%	600							
21	WMZ11A-75S152NU	1500±30%	600	140	210					
22	WMZ11A-75S222NU	2200±30%	600	90	135					
23	WMZ11A-75S332NU	3300±30%	600	60	90					
24	WMZ11A-75S472NU	4700±30%	600	40	60					
25	WMZ11A-105S68RNU	68±30%	360	180	270	105±7				
26	WMZ11A-105S101NU	100±30%	400							
27	WMZ11A-105S151NU	150±30%	400							
28	WMZ11A-105S221NU	220±30%	400							
29	WMZ11A-105S331NU	330±30%	500							
30	WMZ11A-105S471NU	470±30%	500							
31	WMZ11A-105S681NU	680±30%	600							
32	WMZ11A-105S102NU	1000±30%	600							
33	WMZ11A-105S152NU	1500±30%	600	140	210					
34	WMZ11A-105S222NU	2200±30%	600	90	135					
35	WMZ11A-120S68RNU	68±30%	360	180	270					120±7
36	WMZ11A-120S101NU	100±30%	400							



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37	WMZ11A-120S151NU	150±30%	400						
38	WMZ11A-120S221NU	220±30%	400						
39	WMZ11A-120S331NU	330±30%	500						
40	WMZ11A-120S471NU	470±30%	500						
41	WMZ11A-120S681NU	680±30%	600						
42	WMZ11A-120S102NU	1000±30%	600						

序号	型号	额定零功率 电 阻值（Ω）	耐电压 (VAC)	最大可 重复通 断电流 （mA）	耐流能 力（mA）	开关温 度（℃）	外形尺寸（mm）			
							Dmax	Tmax	d	
43	WMZ11A-85L68RNU	68±30%	360	300	450	85±7	5.5	4.5	0.6	
44	WMZ11A-85L101NU	100±30%	400							
45	WMZ11A-85L151NU	150±30%	400							
46	WMZ11A-85L221NU	220±30%	400							
47	WMZ11A-85L331NU	330±30%	500							
48	WMZ11A-85L471NU	470±30%	600							
49	WMZ11A-85L681NU	680±30%	600							
50	WMZ11A-85L102NU	1000±30%	600	200	300					
51	WMZ11A-85L152NU	1500±30%	600	140	210					
52	WMZ11A-85L222NU	2200±30%	600	90	135					
53	WMZ11A-105L68RNU	68±30%	360	300	450	105±7				
54	WMZ11A-105L101NU	100±30%	400							
55	WMZ11A-105L151NU	150±30%	400							
56	WMZ11A-105L221NU	220±30%	400							
57	WMZ11A-105L331NU	330±30%	500							
58	WMZ11A-105L471NU	470±30%	600							
59	WMZ11A-105L681NU	680±30%	600							
60	WMZ11A-120L101NU	100±30%	400	300	450					120±7
61	WMZ11A-120L151NU	150±30%	400							
62	WMZ11A-120L221NU	220±30%	400							
63	WMZ11A-120L331NU	330±30%	500							
64	WMZ11A-120L471NU	470±30%	600							
65	WMZ11A-120L681NU	680±30%	600							
66	WMZ11A-50A68RNU	68±30%	420	400	600	50±7	6.5	5.0	0.6	
67	WMZ11A-50A101NU	100±30%	420							
68	WMZ11A-50A151NU	150±30%	500							
69	WMZ11A-50A221NU	220±30%	500							
70	WMZ11A-50A331NU	330±30%	600							
71	WMZ11A-50A471NU	470±30%	600							
72	WMZ11A-50A681NU	680±30%	600	300	450					
73	WMZ11A-50A102NU	1000±30%	600	200	300					



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74	WMZ11A-50A152NU	1500±30%	600	140	210				
75	WMZ11A-50A222NU	2200±30%	600	90	135				
76	WMZ11A-50A332NU	3300±30%	600	60	90				
77	WMZ11A-50HV68RNU	68±30%	600	400	600		6.5	5.5	0.6
78	WMZ11A-50HV101NU	100±30%	600						
79	WMZ11A-50HV151NU	150±30%	750						
80	WMZ11A-50HV221NU	220±30%	750						
81	WMZ11A-50HV331NU	330±30%	800						
82	WMZ11A-50HV471NU	470±30%	900						
83	WMZ11A-50HV681NU	680±30%	900	300	450				
84	WMZ11A-50HV102NU	1000±30%	900	200	300				
85	WMZ11A-50HV152NU	1500±30%	900	120	210				

序号	型号	额定零功率 电阻值 (Ω)	耐电 压 (VAC)	最大可重复通 断电流 (mA)	耐流能力 (mA)	开关温度 (℃)	外形尺寸 (mm)		
							Dmax	Tmax	d
86	WMZ11A-75A68RNU	68±30%	420	400	600	75±7	6.5	5.0	0.6
87	WMZ11A-75A101NU	100±30%	420						
88	WMZ11A-75A151NU	150±30%	500						
89	WMZ11A-75A221NU	220±30%	500						
90	WMZ11A-75A331NU	330±30%	600						
91	WMZ11A-75A471NU	470±30%	600						
92	WMZ11A-75A681NU	680±30%	700	300	450				
93	WMZ11A-75A102NU	1000±30%	700	200	300				
94	WMZ11A-75A152NU	1500±30%	800	140	210				
95	WMZ11A-75A222NU	2200±30%	800	90	135				
96	WMZ11A-75A332NU	3300±30%	800	60	90				
97	WMZ11A-75HV68RNU	68±30%	600	400	600	75±7	6.5	5.5	0.6
98	WMZ11A-75HV101NU	100±30%	600						
99	WMZ11A-75HV151NU	150±30%	750						
100	WMZ11A-75HV221NU	220±30%	750						
101	WMZ11A-75HV331NU	330±30%	800						
102	WMZ11A-75HV471NU	470±30%	900						
103	WMZ11A-75HV681NU	680±30%	900	300	450				
104	WMZ11A-75HV102NU	1000±30%	900	200	300				
105	WMZ11A-75HV152NU	1500±30%	1000	140	210				
106	WMZ11A-75HV222NU	2200±30%	1000	90	145				
107	WMZ11A-75HV332NU	3300±30%	1000	60	90				
108	WMZ11A-105A68RNU	68±30%	400	400	600	105±7	6.5	5.0	0.6
109	WMZ11A-105A101NU	100±30%	400						
110	WMZ11A-105A151NU	150±30%	400						
111	WMZ11A-105A221NU	220±30%	500						



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112	WMZ11A-105A331NU	330±30%	600						
113	WMZ11A-105A471NU	470±30%	600						
114	WMZ11A-105A681NU	680±30%	700	300	450				
115	WMZ11A-105A102NU	1000±30%	700	200	300				
116	WMZ11A-120A68RNU	68±30%	400	400	600	120±7	6.5	5.0	0.6
117	WMZ11A-120A101NU	100±30%	400						
118	WMZ11A-120A151NU	150±30%	400						
119	WMZ11A-120A221NU	220±30%	500						
120	WMZ11A-120A331NU	330±30%	500						
121	WMZ11A-120A471NU	470±30%	600						
122	WMZ11A-50B68RNU	68±30%	400	800	1200	50±7	8.5	5.0	0.6
123	WMZ11A-50B101NU	100±30%	500						
124	WMZ11A-50B151NU	150±30%	500						
125	WMZ11A-50B221NU	220±30%	600						
126	WMZ11A-50B331NU	330±30%	600	620	930				
127	WMZ11A-50B471NU	470±30%	600	430	645				
128	WMZ11A-50B681NU	680±30%	600	300	450				
129	WMZ11A-50B102NU	1000±30%	600	200	300				
130	WMZ11A-75B68RNU	68±30%	400	800	1200	75±7	8.5	5.0	0.6
131	WMZ11A-75B101NU	100±30%	500						
132	WMZ11A-75B151NU	150±30%	500						
133	WMZ11A-75B221NU	220±30%	600						
134	WMZ11A-75B331NU	330±30%	600	620	930				
135	WMZ11A-75B471NU	470±30%	600	430	645				
136	WMZ11A-85B68RNU	68±30%	400	800	1200	85±7	8.5	5.0	0.6
137	WMZ11A-85B101NU	100±30%	500						
138	WMZ11A-85B151NU	150±30%	500						
139	WMZ11A-85B221NU	220±30%	600						
140	WMZ11A-85B331NU	330±30%	600	620	930				
141	WMZ11A-85B471NU	470±30%	600	430	645				
142	WMZ11A-105B68RNU	68±30%	400	800	1200	105±7	8.5	5.0	0.6
143	WMZ11A-105B101NU	100±30%	500						
144	WMZ11A-105B151NU	150±30%	500						
145	WMZ11A-105B221NU	220±30%	600						
146	WMZ11A-105B331NU	330±30%	600	620	930				
147	WMZ11A-105B471NU	470±30%	600	430	645				
148	WMZ11A-75BHV68RNU	68±30%	600	800	1200	75±7	8.5	5.5	0.6
149	WMZ11A-75BHV101NU	100±30%	600						
150	WMZ11A-75BHV151NU	150±30%	750						
151	WMZ11A-75BHV221NU	220±30%	900						
152	WMZ11A-75BHV331NU	330±30%	1000	620	930				
153	WMZ11A-75BHV471NU	470±30%	1000	430	645				



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154	WMZ11A-75BHV681NU	680±30%	1000	300	450				
155	WMZ11A-75BHV102NU	1000±30%	1000	200	300				
156	WMZ11A-75BHV152NU	1500±30%	1000	240	210				
157	WMZ11A-75BHV222NU	2200±30%	1000	90	145				

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,反之亦然。另,我公司还可按用户的特殊要求供货。Remark: If the Preheating lime is too short, PTC thermistor of low resistance, high courier temp. or big bulk should be selected, vice versa. Besides, Peculiar manufacture capable according to the demands of users.