

## WMZ11

### 1.應用範圍:

WMZ11A 型 PTC 熱敏電阻用於各種螢光燈電子鎮流器、電子節能燈中,不必改動線路,將適當的熱敏電阻直接中跨接在燈管的諧振電容器兩端,可以變電子鎮流器、電子節能燈的硬啟動為預熱啟動,使燈絲的預熱時間達 0.4~2 秒可延長燈管壽命三倍以上。

### 2.特點:

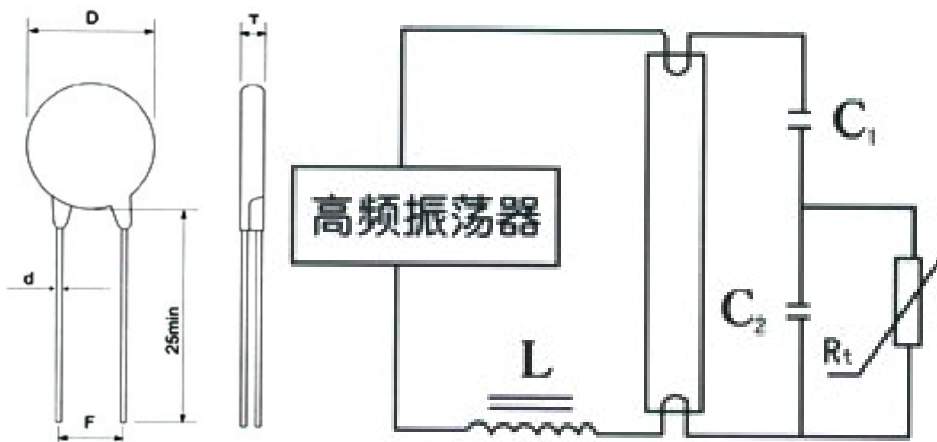
WMZ11A 型 PTC 熱敏電阻利用材料 PTC 特性製作而成,產品體積小、耐電壓高、壽命長、正常工作時功耗小。

### 3.應用原理:

WMZ11A 型 PTC 熱敏電阻應用 PTC 熱敏電阻實現預熱啟動原理如右圖所示: 剛接通開關時, $R_t$  處於常溫態,其阻值遠遠低於  $C_2$  阻值,電流通過  $C_1$ ,  $R_t$  自熱溫度超過居裏點溫度  $T_c$  躍入高阻態,其阻值遠遠高於  $C_2$  阻值,電流通過  $C_1$ 、 $C_2$  形成回路導致 LC 諧振,產生高壓點亮燈管。

### 4.外型結構和尺寸:

### 5.應用電路圖



### 6.產品標誌說明:



注:

①型號:

②開關溫: 50-50°C; 75-75°C; 85-85°C; 105-105°C; 120-120°C

③類型代號: S-微型型; A-基本型; HV-高壓型

④額定零功率電阻: 102-1000 Ω; 68R-68 Ω

⑤電阻允差: N-±30%; V-±25%; M-±20%; K-±10%; X-其他

⑥引線形狀: U-內彎; S-直形; A-軸彎

類型代號	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

### 主要技術參數

序號	型號	額定零功率電阻值 (Ω)	耐電壓 (VAC)	最大可重複通斷電流 (mA)	耐流能力 (mA)	開關溫度 (°C)	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						
14	WMZ11A-75S101NU	100±30%	400						
15	WMZ11A-75S151NU	150±30%	400						
16	WMZ11A-75S221NU	220±30%	500	200	300				
17	WMZ11A-75S331NU	330±30%	500						
18	WMZ11A-75S471NU	470±30%	500						
19	WMZ11A-75S681NU	680±30%	600					75±7	
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						
26	WMZ11A-105S101NU	100±30%	400						
27	WMZ11A-105S151NU	150±30%	400						
28	WMZ11A-105S221NU	220±30%	400						
29	WMZ11A-105S331NU	330±30%	500	180	270				
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						
36	WMZ11A-120S101NU	100±30%	400						
37	WMZ11A-120S151NU	150±30%	400						
38	WMZ11A-120S221NU	220±30%	400						
39	WMZ11A-120S331NU	330±30%	500	180	270				
40	WMZ11A-120S471NU	470±30%	500						
41	WMZ11A-120S681NU	680±30%	600						
42	WMZ11A-120S102NU	1000±30%	600						

序號	型號	額定零功率 值 (Ω)	耐電 壓 (VAC)	最大可重複通斷電 流 (mA)	耐流能力 (mA)	開關溫度 (°C)	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						
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	5.5	4.5	0.6
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	5.5	4.5	0.6
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						
73	WMZ11A-50A102NU	1000±30%	600	200	300				
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	50±7	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				
序號	型號	額定零功率 電阻 值 (Ω)	耐 電 壓 (VAC)	最大可重複通斷電 流 (mA)	耐 流 能 力 (mA)	開 關 溫 度 (°C)	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						
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						
123	WMZ11A-50B101NU	100±30%	500	800	1200	50±7	8.5	5.0	0.6
124	WMZ11A-50B151NU	150±30%	500						
125	WMZ11A-50B221NU	220±30%	600						
126	WMZ11A-50B331NU	330±30%	600						
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			75±7	8.5	5.0	0.6
131	WMZ11A-75B101NU	100±30%	500	800	1200				
132	WMZ11A-75B151NU	150±30%	500						
133	WMZ11A-75B221NU	220±30%	600						
134	WMZ11A-75B331NU	330±30%	600						
135	WMZ11A-75B471NU	470±30%	600	430	645				
136	WMZ11A-85B68RNU	68±30%	400			85±7	8.5	5.0	0.6
137	WMZ11A-85B101NU	100±30%	500	800	1200				
138	WMZ11A-85B151NU	150±30%	500						
139	WMZ11A-85B221NU	220±30%	600						
140	WMZ11A-85B331NU	330±30%	600						
141	WMZ11A-85B471NU	470±30%	600	430	645				
142	WMZ11A-105B68RNU	68±30%	400			105±7	8.5	5.0	0.6
143	WMZ11A-105B101NU	100±30%	500	800	1200				
144	WMZ11A-105B151NU	150±30%	500						
145	WMZ11A-105B221NU	220±30%	600						
146	WMZ11A-105B331NU	330±30%	600						
147	WMZ11A-105B471NU	470±30%	600	430	645				
148	WMZ11A-75BHV68RNU	68±30%	600			75±7	8.5	5.5	0.6
149	WMZ11A-75BHV101NU	100±30%	600	800	1200				
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				
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				