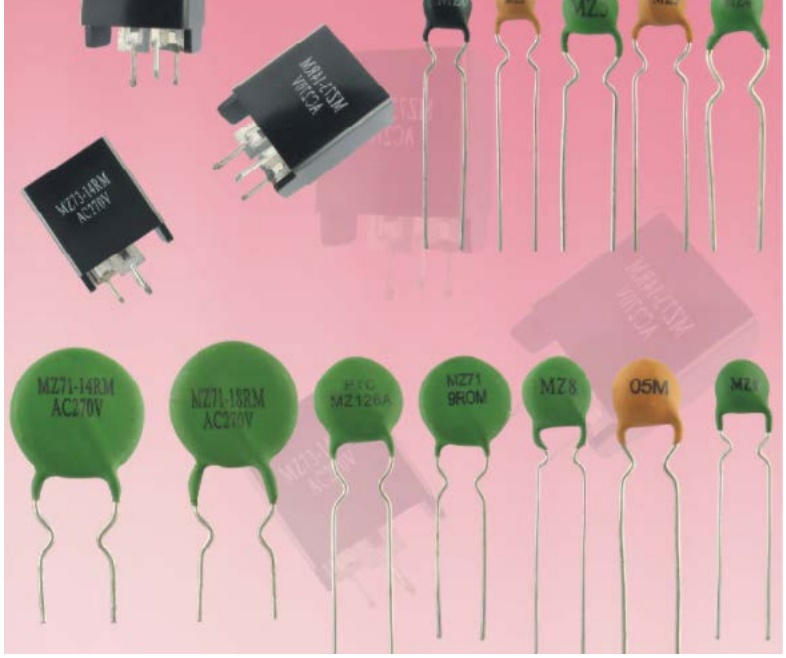
帝科微 DIKEWEI

深圳市帝科微电子有限公司

DIKEWEI ELECTRONICS TECHNOLOGY., TLD. SHENZHEN

PTC正温热敏电阻

PTC THERMISTOR



优良品质 · 诚信经营

一 起 携 手 · 共 创 辉 煌

www.dikewei.cn

PTC Thermistors/ Varistor Complex

热敏/压敏复合电阻器

For Preheating of the High Property Ballast / CFL (Zero Thermal / Zero Power Dissipation)

用于高端电子镇流器/ 节能灯零温升、零功耗预热启动

产品简介 PRODUCTS BRIEF INTRODUCTION

WMZ11B 系列热敏/压敏复合电阻器是应若干国际知名厂商特别要求，专为高端电子镇流器/ 节能灯设计的一种零功耗、零温升型预热启动元件。

WMZ11A/12A (V) 系列 PTC 热敏电阻作为电子镇流器/节能灯阴极预热启动技术的首选方案，终究存在一个固有缺陷：独立的热敏元件始终有功耗、有温升。对高性能电子镇流器/节能灯而言，最大限度地降低其阴极预热启动元件所产生的功耗及温升是工程师们孜孜以求的工作目标。WMZ11B 系列零功耗、零温升预热启动电阻器称得上是继 WMZ11A 系列以后，电子镇流器/节能灯工程师与敏感元件工程师携手合作的又一智慧结晶。WMZ11B 系列是一种由一个 PTC 热敏电阻 R_t 和一个压敏电阻 Rv 串联而成的复合元件。启动时，电压高于 Rv 压敏电压，Rv 处于导通状态，其预热启动过程基本上是由 R_t 来独立完成的。灯管启动点亮处于正常工作状态后，Rv 端电压迅速降低到其压敏电压以下，Rv 跃居高阻态，断开 R_t，从而使零功耗，零温升预热启动得以实现。

WMZ11B 系列 R_t 部分之选型与 WMZ11A 系列基本类似，压敏电阻 Rv 部分之选型主要考虑 Rv 压敏电压应略高于灯管电压、Rv 通流容量应足以应付重复通断的启动电流的频繁冲击。

WMZ11B Series Thermistor / varistor complex is designed specially for preheating of the high property Ballast / CFL (zero thermal / zero power dissipation) according to the

special inquiry of several international famous manufacturers of lighting.

As the first choice of preheating of Ballast / CFL, WMZ11A Series PTC Thermistor has an intrinsic drawback: the independent thermal component always has power dissipation and thermal. To the high property CFL/Ballast, decreasing the power dissipation and thermal as possible as it can is very important. It's also the engineers' goal. WMZ11B Series is another co-operative fruit of the components engineers and the CFL/Ballast engineers after WMZ11A. WMZ11B Series is a kind of complex components, which includes a thermistor Rt and a varistor Rv in series. When the voltage of the circuit is higher than Rv's varistor voltage at starting, Rv is at short state. So the process of preheating is finished almost by Rt independently. After the tube lights and works normally, the Rv's voltage will decrease quickly to the level under its varistor voltage, then Rv will change into high-resistance state. So Rt will be at open state and the preheating which is zero thermal / zero power dissipation will be realized.

The specification of WMZ11B series' Rt is similar to WMZ11A Series. While as to the specification of Rv, two things must be considered: Rv's varistor voltage must be higher than tube's voltage; Rv's Max Peak Current must be able to endure the inrush of Repetitive Turn Over Current.

产品编号 PART NUMBERING

WMZ11B	–	105	S	102	N	U	U	B	10	–	5D	121	K
①		②									③	④	

① Series 系列

② Spec. of PTC Thermistor (Similar as WMZ11A Series) PTC 热敏电阻规格参数（与 WMZ11A 系列类似）

③ Size of Varistor 压敏电阻尺寸: 5D -Φ5 7D -Φ7 10D - Φ10

④ Varistor Vol. & Tol. of Varistor 压敏电阻的压敏电压及其允差范围: 820 - 82V 101 - 100V 121 - 120V 151 - 150V K - ±10% J - ±5%

规格参数 SPECIFICATIONS

No. 序号	Part No. 产品编号	Rated Zero Power Resistance 额定零功率电阻 R_N (Ω)	Curie Temperature 居里温度 T_C (℃)	Varistor Voltage 压敏电压 V_V(V) (at 1mA)	Max. Permissible Repetitive Turn Over Current 最大可重复通断电流 I_{Max} (mA)	Dimensions (mm) 外形尺寸			
						D_{Max}	T_{Max}	$d^{\pm0.05}$	$F^{\pm1}$
1	WMZ11B-50S681NS-5D101K/121K/151K/181K/201K	680±30%	50±7	100±10% 120±10% 150±10% 180±10% 200±10%	200	6.5	6.5	0.6	5.0
2	WMZ11B-50S102NS-5D101K/121K/151K/181K/201K	1000±30%							
3	WMZ11B-50S152NS-5D101K/121K/151K/181K/201K	1500±30%							
4	WMZ11B-50S222NS-5D101K/121K/151K/181K/201K	2200±30%							
5	WMZ11B-50S332NS-5D101K/121K/151K/181K/201K	3300±30%							
6	WMZ11B-75S471NS-5D101K/121K/151K/181K/201K	470±30%	75±7	100±10% 120±10% 150±10% 180±10% 200±10%	200	6.5	6.5	0.6	5.0
7	WMZ11B-75S681NS-5D101K/121K/151K/181K/201K	680±30%							
8	WMZ11B-75S102NS-5D101K/121K/151K/181K/201K	1000±30%							
9	WMZ11B-75S152NS-5D101K/121K/151K/181K/201K	1500±30%							
10	WMZ11B-75S222NS-5D101K/121K/151K/181K/201K	2200±30%							
11	WMZ11B-75S332NS-5D101K/121K/151K/181K/201K	3300±30%							
12	WMZ11B-105S471NS-5D101K/121K/151K/181K/201K	470±30%	105±7	100±10% 120±10% 150±10% 180±10% 200±10%	200	6.5	6.5	0.6	5.0
13	WMZ11B-105S681NS-5D101K/121K/151K/181K/201K	680±30%							
14	WMZ11B-105S102NS-5D101K/121K/151K/181K/201K	1000±30%							
15	WMZ11B-105S152NS-5D101K/121K/151K/181K/201K	1500±30%							
16	WMZ11B-105S222NS-5D101K/121K/151K/181K/201K	2200±30%							
17	WMZ11B-105S332NS-5D101K/121K/151K/181K/201K	3300±30%							
18	WMZ11B-105S471NS-7D201K/271K/301K/331K/391K	470±30%	105±7	200±10% 270±10% 330±10% 300±10% 390±10%	200	8.5	6.5	0.6	5.0
19	WMZ11B-105S681NS-7D201K/271K/301K/331K/391K	680±30%							
20	WMZ11B-105S102NS-7D201K/271K/301K/331K/391K	1000±30%							
21	WMZ11B-105S152NS-7D201K/271K/301K/331K/391K	1500±30%							
22	WMZ11B-105S222NS-7D201K/271K/301K/331K/391K	2200±30%							
23	WMZ11B-75L471NS-5D101K/121K/151K/181K/201K	470±30%	75±7	100±10% 120±10% 150±10% 180±10% 200±10%	300	6.5	6.5	0.6	5.0
24	WMZ11B-75L681NS-5D101K/121K/151K/181K/201K	680±30%							
25	WMZ11B-75L102NS-5D101K/121K/151K/181K/201K	1000±30%							
26	WMZ11B-75L152NS-5D101K/121K/151K/181K/201K	1500±30%							
27	WMZ11B-75L222NS-5D101K/121K/151K/181K/201K	2200±30%							
28	WMZ11B-85L471NS-5D101K/121K/151K/181K/201K	470±30%	85±7	100±10% 120±10% 150±10% 180±10% 200±10%	300	6.5	6.5	0.6	5.0
29	WMZ11B-85L681NS-5D101K/121K/151K/181K/201K	680±30%							
30	WMZ11B-85L102NS-5D101K/121K/151K/181K/201K	1000±30%							
31	WMZ11B-85L152NS-5D101K/121K/151K/181K/201K	1500±30%							
32	WMZ11B-85L222NS-5D101K/121K/151K/181K/201K	2200±30%							
33	WMZ11B-85L471NS-7D151K/201K/241K/271K/331K	470±30%	85±7	150±10% 200±10% 240±10% 270±10% 330±10%	300	8.5	6.5	0.6	5.0
34	WMZ11B-85L681NS-7D151K/201K/241K/271K/331K	680±30%							
35	WMZ11B-85L102NS-7D151K/201K/241K/271K/331K	1000±30%							
36	WMZ11B-85L152NS-7D151K/201K/241K/271K/331K	1500±30%							
37	WMZ11B-85L222NS-7D151K/201K/241K/271K/331K	2200±30%							
38	WMZ11B-75A471NS-7D151K/201K/241K/271K/331K	470±30%	75±7	150±10% 200±10% 240±10% 270±10% 330±10%	400	8.5	6.5	0.6	5.0
39	WMZ11B-75A681NS-7D151K/201K/241K/271K/331K	680±30%							
40	WMZ11B-75A102NS-7D151K/201K/241K/271K/331K	1000±30%							
41	WMZ11B-75A152NS-7D151K/201K/241K/271K/331K	1500±30%							
42	WMZ11B-75A222NS-7D151K/201K/241K/271K/331K	2200±30%							
43	WMZ11B-75A471NS-10D201K/241K/271K/331K	470±30%	75±7	200±10% 240±10% 270±10% 330±10%	400	11.5	6.5	0.6	7.5
44	WMZ11B-75A681NS-10D201K/241K/271K/331K	680±30%							
45	WMZ11B-75A102NS-10D201K/241K/271K/331K	1000±30%							
46	WMZ11B-75A152NS-10D201K/241K/271K/331K	1500±30%							
47	WMZ11B-105A471NS-7D201K/241K/271K/331K	470±30%	105±7	200±10% 240±10% 270±10% 330±10%	400	8.5	6.5	0.6	5.0
48	WMZ11B-105A681NS-7D201K/241K/271K/331K	680±30%							
49	WMZ11B-105A102NS-7D201K/241K/271K/331K	1000±30%							
50	WMZ11B-105A152NS-7D201K/241K/271K/331K	1500±30%							
51	WMZ11B-105A471NS-10D201K/241K/271K/331K	470±30%	105±7	200±10% 240±10% 270±10% 330±10%	400	11.5	6.5	0.6	7.5
52	WMZ11B-105A681NS-10D201K/241K/271K/331K	680±30%							
53	WMZ11B-105A102NS-10D201K/241K/271K/331K	1000±30%							
54	WMZ11B-105A152NS-10D201K/241K/271K/331K	1500±30%							
55	WMZ11B-85B331NS-7D201K/241K/271K/331K	330±30%	85±7	200±10% 240±10% 270±10% 330±10%	800	8.5	6.5	0.6	7.5
56	WMZ11B-85B471NS-7D201K/241K/271K/331K	470±30%							
57	WMZ11B-85B681NS-7D201K/241K/271K/331K	680±30%							
58	WMZ11B-85B102NS-7D201K/241K/271K/331K	1000±30%							
59	WMZ11B-85B331NS-10D201K/241K/271K/331K	330±30%	85±7	200±10% 240±10% 270±10% 330±10%	800	11.5	6.5	0.6	7.5
60	WMZ11B-85B471NS-10D201K/241K/271K/331K	470±30%							
61	WMZ11B-85B681NS-10D201K/241K/271K/331K	680±30%							
62	WMZ11B-85B102NS-10D201K/241K/271K/331K	1000±30%							