

**PTC Thermistor Series**

**KLS6-MZ11B PTC Thermistor Series**

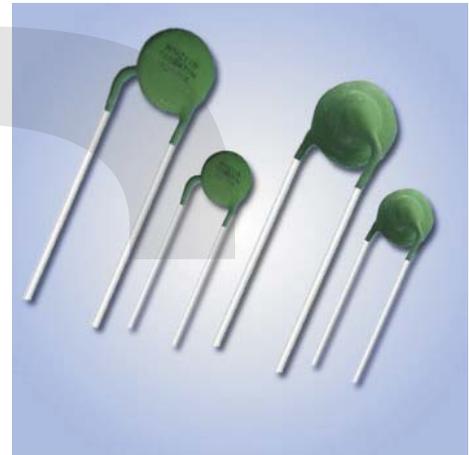
**1. Applications**

MZ11B PTC thermistor series is mainly applied in the zero-temperature-rise and zero-consumption preheat startup of high-performance ballasts and energy-saving lamps.

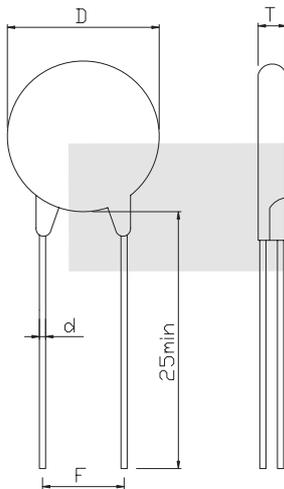
**2. Principal**

MZ11 B series PTC thermister is a kind of compound element which  $R_t$  of PTC thermistor is in series of  $R_v$  of varistor. when turn on the switch, voltage is higher than  $R_v$ 's varistor voltage,  $R_v$  is in conduction state, it's proceed of preheating startup is basically independent completed by  $R_t$ , the startup spot of lamp pipe is in normal operating state, voltage declines below the  $R_v$ 's varistor voltage,  $R_v$  is on break-open state, then make zero power-consumption and zero temperature-up comes true.

Selection of M2 11B series is basically familiar with MZ11A series. there lies one difference Namely,  $R_v$ 's varistor voltage should be slightly higher than lamp pipe's voltage.



**4. Dimension (Unit: mm)**



**ORDER INFORMATION**

**KLS6-MZ11B - 75 - HV -XXX N U - 5D - 121K**

Part Number	KLS6-MZ11B	- 75 - HV	-XXX	N	U	- 5D	- 121K	Vols of Varistr and Allowable tolerance: 820-82V 101-100V 121-120V 151-S150V K: ± 10% J: ± 5%
PTC Thermistor MZ11B Series								Chip Diameter: 5D=Φ5mm 7D=Φ7mm 10D=Φ10mm
Temperature of switch: 50-50°C 75-75°C 85-85°C 105-105°C 120-120°C								Shape of lead: U-in-formed S-straight A-axis wind
Type code: S-small type A-Basic type HV-High voltage								Tol. of resistance: N-± 30% V-± 25% M-± 20% K-± 10% X-else
								Rated zero power resistance 102=1000Ω 68R=68Ω

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#### Main Techno-Parameter

No	Part No.	Rated Zero-power Resistance	Switch Temp Tsw	Varistor Voltage	Max. W. Cur. I max	Dimensions (mm)			
		(Ω)	(°C)	(V)	(mA)	Dmax	Tmax	D±0.05	F±1
1	MZ11B-75S221NU-5D121K	220±30%	75±7	120±10%	200	6.5	6.5	0.5	5
2	MZ11B-75S331NU-5D121K	330±30%							
3	MZ11B-75S681NU-5D121K	680±30%							
4	MZ11B-75S102NU-5D121K	1000±30%							
5	MZ11B-75S152NU-5D121K	1500±30%	75±7	150±10%	200	8.5	6.5	0.5	5
6	MZ11B-75S221NU-5D151K	220±30%							
7	MZ11B-75S331NU-5D151K	330±30%							
8	MZ11B-75S681NU-5D151K	680±30%							
9	MZ11B-75S102NU-5D151K	1000±30%							
10	MZ11B-75S152NU-5D151K	1500±30%							
11	MZ11B-85S331NU-5D121K	220±30%	85±7	120±10%	300	6.5	6.5	0.6	5
12	MZ11B-85S471NU-5D121K	330±30%							
13	MZ11B-85S681NU-5D121K	680±30%							
14	MZ11B-85S102NU-5D121K	1000±30%							
15	MZ11B-75S152NU-5D121K	1500±30%							
16	MZ11B-85S331NU-5D151K	330±30%	85±7	150±10%	300	8	6.5	0.5	5
17	MZ11B-85S471NU-5D151K	470±30%							
18	MZ11B-85S681NU-5D151K	680±30%							
19	MZ11B-85S102NU-5D151K	1000±30%							
20	MZ11B-75S152NU-5D151K	1500±30%	105±7	120±10%	200	6	6.5	0.6	5
21	MZ11B-105S101NU-5D121K	100±30%							
22	MZ11B-105S151NU-5D121K	150±30%							
23	MZ11B-105S221NU-5D121K	220±30%							
24	MZ11B-105S331NU-5D121K	330±30%							
25	MZ11B-105S471NU-5D121K	470±30%							
26	MZ11B-105S681NU-5D121K	680±30%							
27	MZ11B-105S102NU-5D121K	1000±30%							
28	MZ11B-105S101NU-5D151K	100±30%	105±7	150±10%	200	8	6.5	0.6	5
29	MZ11B-105S151NU-5D151K	150±30%							
30	MZ11B-105S221NU-5D151K	220±30%							
31	MZ11B-105S331NU-5D151K	330±30%							
32	MZ11B-105S471NU-5D151K	470±30%							
33	MZ11B-105S681NU-5D151K	680±30%							
34	MZ11B-105S102NU-5D151K	1000±30%							
35	MZ11B-105A101NU-7D151K	100±30%	105±7	150±10%	400	8	6.5	0.6	5
36	MZ11B-105A151NU-7D151K	150±30%							
37	MZ11B-105A221NU-7D151K	220±30%							
38	MZ11B-105A331NU-7D151K	330±30%							
39	MZ11B-105A471NU-7D151K	470±30%							
40	MZ11B-105A681NU-7D151K	680±30%							
41	MZ11B-105A102NU-7D151K	1000±30%							
42	MZ11B-105A152NU-7D151K	1500±30%							
43	MZ11B-105A68RNU-10D201K	68±30%	105±7	200±10%	800	11	6.5	0.6	5
44	MZ11B-105A101RNU-10D201K	100±30%							
45	MZ11B-105A151RNU-10D201K	150±30%							
46	MZ11B-105A221RNU-10D201K	220±30%							
47	MZ11B-105A331RNU-10D201K	330±30%							
48	MZ11B-105A471RNU-10D201K	470±30%							
49	MZ11B-85B101NU-7D151K	100±30%	85±7	150±10%	800	8	6.5	0.6	5
50	MZ11B-85B151NU-7D151K	150±30%							
51	MZ11B-85B221NU-7D151K	220±30%							
52	MZ11B-85B331NU-7D151K	330±30%							
53	MZ11B-85B471NU-7D151K	470±30%	85±7	200±10%	800	11	6.5	0.6	5
54	MZ11B-85B101NU-10D201K	100±30%							
55	MZ11B-85B151NU-10D201K	150±30%							
56	MZ11B-85B221NU-10D201K	220±30%							
57	MZ11B-85B331NU-10D201K	330±30%							
58	MZ11B-85B471NU-10D201K	470±30%							