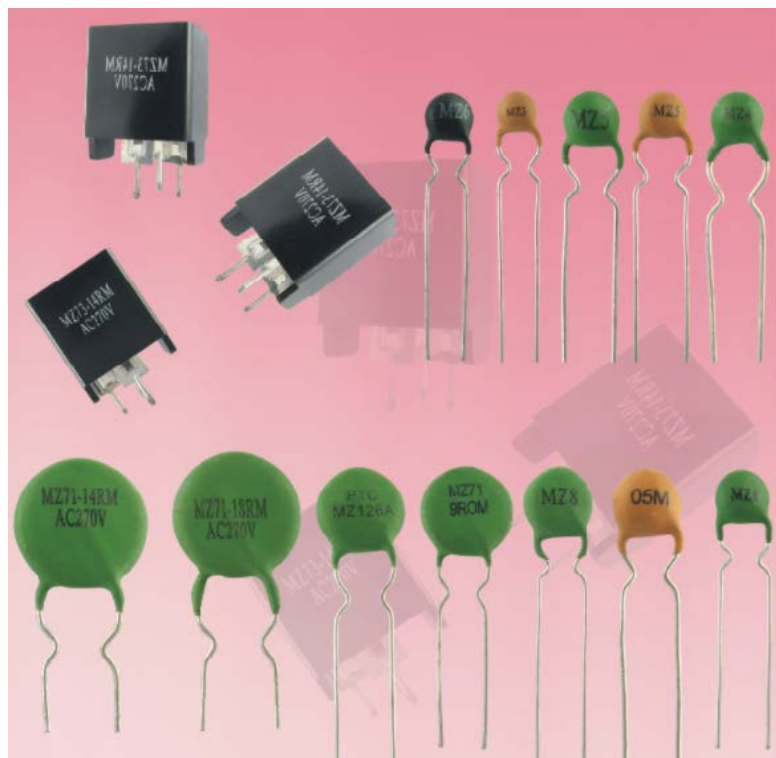


PTC正温热敏电阻

PTC THERMISTOR



优良品质 · 诚信经营

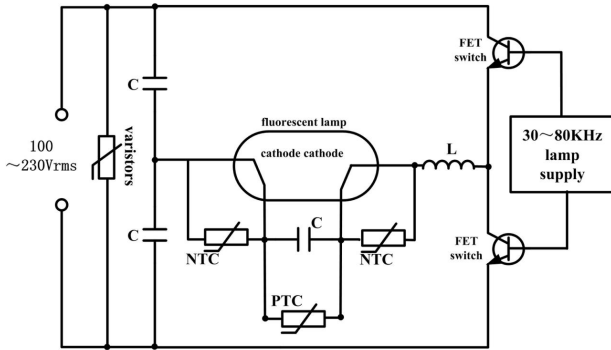
一起携手 · 共创辉煌

PTC Thermistors 正温度系数热敏电阻器

For Preheating of the Electronics Ballast / CFL 用于电子镇流器/节能灯预热启动

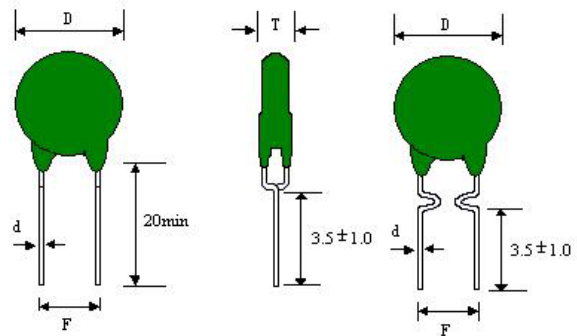
应用示例

EXAMPLE OF APPLICATION



Typical Application Circuit of Electronic Ballast / CFL For PTC / NTC Thermistors & Varistors

PTC / NTC 热敏电阻和压敏电阻用于电子镇流器/节能灯的典型线路



Straight

直线

Axis-formed

轴弯

In-formed

弯线

产品编号

PART NUMBERING

| | | | | | | | | | | | |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| WMZ12A(V) | 75 | HV | 102 | N | U | U | B | 5 | G | 6 | B |
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) |

(1) Series 系列: WMZ11A - Old series 原系列

WMZ12A(V) - New series 新系列

(2) Curie Temp. 居里温度: 50 - 50°C 75 - 75°C 85 - 85°C 105 - 105°C 120 - 120°C

(3) Max Diameter 外径 D_{max} : A / HV - $\Phi 6.5$ B / BHV - $\Phi 8.5$ S - $\Phi 4.5$ L - $\Phi 5.5$

(4) Rated Zero Power Resistance 额定零功率电阻 R_N : 102 - 1000 Ω , 68R - 68 Ω

(5) Tolerance of Resistance 电阻值允差: N - $\pm 30\%$ V - $\pm 25\%$ M - $\pm 20\%$ K - $\pm 10\%$ X - Other Special Tol. 其它特殊允差

(6) Shape of Leads 引线形状: U - In-formed 内弯 S - Straight 直线 A - Axis-formed 轴弯 I - Inward 内缩 N - No Leads 无引线

(7) Leads material 引线材质: U: C_u 铜线 (P: C_p 钢线)

(8) Packing Type 包装形式: B - Bulk 散装 (A - Ammo 条带 R - Reel 盘带)

(9) Leads Length 引线长度 5: 5mm (10: 10mm)

(10) Coating Material 封装材料: S - Black Silicone 黑色硅树脂 G - Green Silicone 绿色硅树脂

P - PF Resin 酚醛树脂 E - Epoxy 改良树脂 N - No Coating 不封装

(11) Leads Diameter 引线直径: 5 - $\Phi 0.5$ 6 - $\Phi 0.6$ 8 - $\Phi 0.8$ 1 - $\Phi 1.0$

(12) Leads Distance 引线间距: A - 2.5 B - 5.0 C - 7.5 D - 10.0

规格表
SPECIFICATIONS TABLE

 Max. Operating Vol. 最大工作电压: $U_{Max} = 265V_{AC}$

| No. 序号 | Part No. 产品编号 | Rated Zero Power Resistance 额定 零功率电阻 $R_N(\Omega)$ | Breakdown Vol. 耐电压 $U_B(V_{AC})$ | Max. Permissible Repetitive Turn Over Current 最大 可重复通断电流 $I_{Max} (mA)$ | Over Current Withstanding 耐电流能力 $I_B(mA)$ | Curie Temperature 居里温度 T_C ($^{\circ}C$) | Dimensions 外形尺寸(mm) | | | Marking 标志 | | | | | | | |
|-----------|--------------------|---|---|---|--|---|------------------------|-----------|----------------|---------------|-----|-----|-------|-----|-----|-----|------|
| | | | | | | | D_{Max} | T_{Max} | $d^{\pm 0.05}$ | | | | | | | | |
| 001 | WMZ12A(V)-50S68RN | 68±30% | 360 | 200 | 300 | 50±7 | 4.5 | 4.5 | 0.5 | 50S | | | | | | | |
| 002 | WMZ12A(V)-50S101N | 100±30% | 400 | | | | | | | | | | | | | | |
| 003 | WMZ12A(V)-50S151N | 150±30% | 400 | | | | | | | | | | | | | | |
| 004 | WMZ12A(V)-50S221N | 220±30% | 500 | | | | | | | | | | | | | | |
| 005 | WMZ12A(V)-50S331N | 330±30% | 500 | | | | | | | | | | | | | | |
| 006 | WMZ12A(V)-50S471N | 470±30% | 500 | | | | | | | | | | | | | | |
| 007 | WMZ12A(V)-50S681N | 680±30% | 600 | | | | | | | | | | | | | | |
| 008 | WMZ12A(V)-50S102N | 1,000±30% | 600 | | | | | | | | | | | | | | |
| 009 | WMZ12A(V)-50S152N | 1,500±30% | 600 | | | | | | | | 140 | 210 | | | | | |
| 010 | WMZ12A(V)-50S222N | 2,200±30% | 600 | | | | | | | | 90 | 135 | | | | | |
| 011 | WMZ12A(V)-50S332N | 3,300±30% | 600 | | | | | | | | 60 | 90 | | | | | |
| 012 | WMZ12A(V)-50S472N | 4,700±30% | 600 | | | | | | | | 40 | 60 | | | | | |
| 013 | WMZ12A(V)-75S68RN | 68±30% | 360 | 200 | 300 | 75±7 | 4.5 | 4.5 | 0.5 | 75S | | | | | | | |
| 014 | WMZ12A(V)-75S101N | 100±30% | 400 | | | | | | | | | | | | | | |
| 015 | WMZ12A(V)-75S151N | 150±30% | 400 | | | | | | | | | | | | | | |
| 016 | WMZ12A(V)-75S221N | 220±30% | 500 | | | | | | | | | | | | | | |
| 017 | WMZ12A(V)-75S331N | 330±30% | 500 | | | | | | | | | | | | | | |
| 018 | WMZ12A(V)-75S471N | 470±30% | 500 | | | | | | | | | | | | | | |
| 019 | WMZ12A(V)-75S681N | 680±30% | 600 | | | | | | | | | | | | | | |
| 020 | WMZ12A(V)-75S102N | 1,000±30% | 600 | | | | | | | | | | | | | | |
| 021 | WMZ12A(V)-75S152N | 1,500±30% | 600 | | | | | | | | 140 | 210 | | | | | |
| 022 | WMZ12A(V)-75S222N | 2,200±30% | 600 | | | | | | | | 90 | 135 | | | | | |
| 023 | WMZ12A(V)-75S332N | 3,300±30% | 600 | | | | | | | | 60 | 90 | | | | | |
| 024 | WMZ12A(V)-75S472N | 4,700±30% | 600 | | | | | | | | 40 | 60 | | | | | |
| 025 | WMZ12A(V)-105S68RN | 68±30% | 360 | 180 | 270 | 105±7 | 4.5 | 4.5 | 0.5 | 105S | | | | | | | |
| 026 | WMZ12A(V)-105S101N | 100±30% | 400 | | | | | | | | | | | | | | |
| 027 | WMZ12A(V)-105S151N | 150±30% | 400 | | | | | | | | | | | | | | |
| 028 | WMZ12A(V)-105S221N | 220±30% | 400 | | | | | | | | | | | | | | |
| 029 | WMZ12A(V)-105S331N | 330±30% | 500 | | | | | | | | | | | | | | |
| 030 | WMZ12A(V)-105S471N | 470±30% | 500 | | | | | | | | | | | | | | |
| 031 | WMZ12A(V)-105S681N | 680±30% | 600 | | | | | | | | | | | | | | |
| 032 | WMZ12A(V)-105S102N | 1,000±30% | 600 | | | | | | | | | | | | | | |
| 033 | WMZ12A(V)-105S152N | 1,500±30% | 600 | | | | | | | | 140 | 210 | | | | | |
| 034 | WMZ12A(V)-105S222N | 2,200±30% | 600 | | | | | | | | 90 | 135 | | | | | |
| 035 | WMZ12A(V)-120S68RN | 68±30% | 360 | | | | | | | | 180 | 270 | 120±7 | 4.5 | 4.5 | 0.5 | 120S |
| 036 | WMZ12A(V)-120S101N | 100±30% | 400 | | | | | | | | | | | | | | |
| 037 | WMZ12A(V)-120S151N | 150±30% | 400 | | | | | | | | | | | | | | |
| 038 | WMZ12A(V)-120S221N | 220±30% | 400 | | | | | | | | | | | | | | |
| 039 | WMZ12A(V)-120S331N | 330±30% | 500 | | | | | | | | | | | | | | |
| 040 | WMZ12A(V)-120S471N | 470±30% | 500 | | | | | | | | | | | | | | |
| 041 | WMZ12A(V)-120S681N | 680±30% | 600 | | | | | | | | | | | | | | |
| 042 | WMZ12A(V)-120S102N | 1,000±30% | 600 | | | | | | | | | | | | | | |
| 043 | WMZ12A(V)-85L68RN | 68±30% | 360 | 300 | 450 | 85±7 | 5.5 | 4.5 | 0.6 | 85L | | | | | | | |
| 044 | WMZ12A(V)-85L101RN | 100±30% | 400 | | | | | | | | | | | | | | |
| 045 | WMZ12A(V)-85L151RN | 150±30% | 400 | | | | | | | | | | | | | | |
| 046 | WMZ12A(V)-85L221RN | 220±30% | 400 | | | | | | | | | | | | | | |
| 047 | WMZ12A(V)-85L331RN | 330±30% | 500 | | | | | | | | | | | | | | |
| 048 | WMZ12A(V)-85L471RN | 470±30% | 600 | | | | | | | | | | | | | | |
| 049 | WMZ12A(V)-85L681N | 680±30% | 600 | | | | | | | | 300 | 450 | | | | | |
| 050 | WMZ12A(V)-85L102N | 1,000±30% | 600 | | | | | | | | 200 | 300 | | | | | |
| 051 | WMZ12A(V)-85L152N | 1,500±30% | 600 | | | | | | | | 140 | 210 | | | | | |
| 052 | WMZ12A(V)-85L222N | 2,200±30% | 600 | | | | | | | | 90 | 135 | | | | | |

Max. Operating Vol. 最大工作电压: $U_{Max} = 265V_{AC}$

| No. 序号 | Part No. 产品编号 | Rated Zero Power Resistance 额 定零功率电阻 $R_N(\Omega)$ | Breakdown Vol. 耐电压 $U_B(V_{AC})$ | Max. Permissible Repetitive Turn Over Current 最 大可重复通断电 流 $I_{Max} (mA)$ | Over Current Withstanding 耐电流能力 $I_B(mA)$ | Curie Temperature 居里温度 T_c ($^{\circ}C$) | Dimensions 外形尺寸(mm) | | | Marking 标志 | | | | | |
|-----------|---------------------|---|---|--|--|---|------------------------|-----------|----------------|-------------------------|-------|-----|------|-----|-------------------------|
| | | | | | | | D_{Max} | T_{Max} | $d^{\pm 0.05}$ | | | | | | |
| 053 | WMZ12A(V)-105L68RN | 68±30% | 360 | 300 | 450 | 105±7 | 5.5 | 4.5 | 0.6 | 105L | | | | | |
| 054 | WMZ12A(V)-105L101RN | 100±30% | 400 | | | | | | | | | | | | |
| 055 | WMZ12A(V)-105L151RN | 150±30% | 400 | | | | | | | | | | | | |
| 056 | WMZ12A(V)-105L221RN | 220±30% | 400 | | | | | | | | | | | | |
| 057 | WMZ12A(V)-105L331RN | 330±30% | 500 | | | | | | | | | | | | |
| 058 | WMZ12A(V)-105L471RN | 470±30% | 600 | | | | | | | | | | | | |
| 059 | WMZ12A(V)-105L681RN | 680±30% | 600 | | | | | | | | | | | | |
| 060 | WMZ12A(V)-120L101N | 100±30% | 400 | 300 | 450 | 120±7 | 5.5 | 4.5 | 0.6 | 120L | | | | | |
| 061 | WMZ12A(V)-120L151N | 150±30% | 400 | | | | | | | | | | | | |
| 062 | WMZ12A(V)-120L221N | 220±30% | 400 | | | | | | | | | | | | |
| 063 | WMZ12A(V)-120L331N | 330±30% | 500 | | | | | | | | | | | | |
| 064 | WMZ12A(V)-120L471N | 470±30% | 500 | | | | | | | | | | | | |
| 065 | WMZ12A(V)-120L681N | 680±30% | 600 | | | | | | | | | | | | |
| 066 | WMZ12A(V)-50A68RN | 68±30% | 420 | | | | | | | | 400 | 600 | 50±7 | 6.5 | 5.0 |
| 067 | WMZ12A(V)-50A101N | 100±30% | 420 | | | | | | | | | | | | |
| 068 | WMZ12A(V)-50A151N | 150±30% | 500 | | | | | | | | | | | | |
| 069 | WMZ12A(V)-50A221N | 220±30% | 500 | | | | | | | | | | | | |
| 070 | WMZ12A(V)-50A331N | 330±30% | 600 | | | | | | | | | | | | |
| 071 | WMZ12A(V)-50A471N | 470±30% | 600 | | | | | | | | | | | | |
| 072 | WMZ12A(V)-50A681N | 680±30% | 600 | | | | | | | | | | | | |
| 073 | WMZ12A(V)-50A102N | 1,000±30% | 600 | 200 | 300 | 50±7 | 6.5 | 5.5 | 0.6 | WMZ11A 50HV /50HV | | | | | |
| 074 | WMZ12A(V)-50A152N | 1,500±30% | 600 | 140 | 210 | | | | | | | | | | |
| 075 | WMZ12A(V)-50A222N | 2,200±30% | 600 | 90 | 135 | | | | | | | | | | |
| 076 | WMZ12A(V)-50A332N | 3,300±30% | 600 | 60 | 90 | | | | | | | | | | |
| 077 | WMZ12A(V)-50HV68RN | 68±30% | 600 | 400 | 600 | | | | | | 50±7 | 6.5 | 5.5 | 0.6 | WMZ11A 50HV /50HV |
| 078 | WMZ12A(V)-50HV101N | 100±30% | 600 | | | | | | | | | | | | |
| 079 | WMZ12A(V)-50HV151N | 150±30% | 750 | | | | | | | | | | | | |
| 080 | WMZ12A(V)-50HV221N | 220±30% | 750 | | | | | | | | | | | | |
| 081 | WMZ12A(V)-50HV331N | 330±30% | 800 | | | | | | | | | | | | |
| 082 | WMZ12A(V)-50HV471N | 470±30% | 900 | | | | | | | | | | | | |
| 083 | WMZ12A(V)-50HV681N | 680±30% | 900 | | | | | | | | | | | | |
| 084 | WMZ12A(V)-50HV102N | 1,000±30% | 900 | 200 | 300 | 120±7 | 6.5 | 5.0 | 0.6 | WMZ11A 120A /120A | | | | | |
| 085 | WMZ12A(V)-50HV152N | 1,500±30% | 1,000 | 140 | 210 | | | | | | | | | | |
| 116 | WMZ12A(V)-120A68RN | 68±30% | 400 | 400 | 600 | | | | | | 120±7 | 6.5 | 5.0 | 0.6 | WMZ11A 120A /120A |
| 117 | WMZ12A(V)-120A101N | 100±30% | 400 | | | | | | | | | | | | |
| 118 | WMZ12A(V)-120A151N | 150±30% | 400 | | | | | | | | | | | | |
| 119 | WMZ12A(V)-120A221N | 220±30% | 500 | | | | | | | | | | | | |
| 120 | WMZ12A(V)-120A331N | 330±30% | 500 | | | | | | | | | | | | |
| 121 | WMZ12A(V)-120A471N | 470±30% | 600 | | | | | | | | | | | | |
| 122 | WMZ12A(V)-50B68RN | 68±30% | 400 | | | 800 | 1,200 | 50±7 | 8.5 | 5.0 | | | | | |
| 123 | WMZ12A(V)-50B101N | 100±30% | 500 | | | | | | | | | | | | |
| 124 | WMZ12A(V)-50B151N | 150±30% | 500 | | | | | | | | | | | | |
| 125 | WMZ12A(V)-50B221N | 220±30% | 600 | | | | | | | | | | | | |
| 126 | WMZ12A(V)-50B331N | 330±30% | 600 | 620 | 930 | | | | | | | | | | |
| 127 | WMZ12A(V)-50B471N | 470±30% | 600 | 430 | 645 | | | | | | | | | | |
| 128 | WMZ12A(V)-50B681N | 680±30% | 600 | 300 | 450 | | | | | | | | | | |
| 129 | WMZ12A(V)-50B102N | 1,000±30% | 600 | 200 | 300 | | | | | | | | | | |

Max. Operating Vol. 最大工作电压: $U_{Max} = 265V_{AC}$

| No. 序号 | Part No. 产品编号 | Rated Zero Power Resistance 额定零功率电阻 $R_N(\Omega)$ | Breakdown Vol. 耐电压 $U_B(V_{AC})$ | Max. Permissible Repetitive Turn Over Current 最大可重复通断电流 I_{Max} (mA) | Over Current Withstanding 耐电流能力 $I_B(mA)$ | Curie Temperature 居里温度 T_C (°C) | Dimensions 外形尺寸(mm) | | | Marking 标志 | | |
|-----------|---------------------|--|-------------------------------------|--|--|--------------------------------------|------------------------|-----------|-------------|---------------------------|-----|-----|
| | | | | | | | D_{Max} | T_{Max} | $d^{±0.05}$ | | | |
| 130 | WMZ12A(V)-75B68RN | 68 ±30% | 400 | 800 | 1,200 | 75±7 | 8.5 | 5.0 | 0.6 | WMZ11A 75B /75B | | |
| 131 | WMZ12A(V)-75B101N | 100 ±30% | 500 | | | | | | | | | |
| 132 | WMZ12A(V)-75B151N | 150±30% | 500 | | | | | | | | | |
| 133 | WMZ12A(V)-75B221N | 220 ±30% | 600 | | | | | | | | | |
| 134 | WMZ12A(V)-75B331N | 330±30% | 600 | | | | | | | | 620 | 930 |
| 135 | WMZ12A(V)-75B471N | 470 ±30% | 600 | 430 | 645 | | | | | | | |
| 136 | WMZ12A(V)-85B68RN | 68 ±30% | 400 | 800 | 1,200 | 85±7 | 8.5 | 5.0 | 0.6 | WMZ11A 85B /85B | | |
| 137 | WMZ12A(V)-85B101N | 100 ±30% | 500 | | | | | | | | | |
| 138 | WMZ12A(V)-85B151N | 150±30% | 500 | | | | | | | | | |
| 139 | WMZ12A(V)-85B221N | 220 ±30% | 600 | | | | | | | | | |
| 140 | WMZ12A(V)-85B331N | 330±30% | 600 | | | | | | | | 620 | 930 |
| 141 | WMZ12A(V)-85B471N | 470 ±30% | 600 | | | | | | | | 430 | 645 |
| 142 | WMZ12A(V)-85B561N | 560 ±30% | 800 | | | | | | | | 300 | 450 |
| 143 | WMZ12A(V)-105B68RN | 68 ±30% | 400 | 800 | 1,200 | 105±7 | 8.5 | 5.0 | 0.6 | WMZ11A 105B /105B | | |
| 144 | WMZ12A(V)-105B101N | 100 ±30% | 500 | | | | | | | | | |
| 145 | WMZ12A(V)-105B151N | 150±30% | 500 | | | | | | | | | |
| 146 | WMZ12A(V)-105B221N | 220 ±30% | 600 | | | | | | | | | |
| 147 | WMZ12A(V)-105B331N | 330±30% | 600 | | | | | | | | 620 | 930 |
| 148 | WMZ12A(V)-105B471N | 470 ±30% | 600 | | | | | | | | 430 | 645 |
| 149 | WMZ12A(V)-75BHV68RN | 68 ±30% | 600 | 800 | 1,200 | 75±7 | 8.5 | 5.5 | 0.6 | WMZ11A 75BHV /75BHV | | |
| 150 | WMZ12A(V)-75BHV101N | 100 ±30% | 600 | | | | | | | | | |
| 151 | WMZ12A(V)-75BHV151N | 150±30% | 750 | | | | | | | | | |
| 152 | WMZ12A(V)-75BHV221N | 220 ±30% | 900 | | | | | | | | | |
| 153 | WMZ12A(V)-75BHV331N | 330±30% | 1,000 | | | | | | | | 620 | 930 |
| 154 | WMZ12A(V)-75BHV471N | 470 ±30% | 1,000 | | | | | | | | 430 | 645 |
| 155 | WMZ12A(V)-75BHV681N | 680 ±30% | 1,000 | | | | | | | | 300 | 450 |
| 156 | WMZ12A(V)-75BHV102N | 1,000±30% | 1,000 | | | | | | | | 200 | 300 |
| 157 | WMZ12A(V)-75BHV152N | 1,500±30% | 1,000 | | | | | | | | 140 | 210 |
| 158 | WMZ12A(V)-75BHV222N | 2,200±30% | 1,000 | 90 | 135 | | | | | | | |