



负温度系数(NTC)热敏电阻器

Negative temperature coefficient (NTC) thermistor

MF72功率型NTC热敏电阻系列

MF72 Power NTC Thermistor series

● 特点

◎ 体积小、功率大、抑制浪涌电流能力强

◎ 反应速度快

◎ 材料常数 (B值) 大, 残余电阻小

◎ 寿命长, 可靠性高

◎ 系列全, 应用范围宽

● 应用范围

◎ 转换电源, 开关电源, UPS电源

◎ 电子节能灯, 镇流器及各类加热器

◎ 各类显像管、显示器

◎ 白炽灯, 其它照明灯具

● 安规认证 Approvals



◎ UL 1434 认证
(File # E 241319)



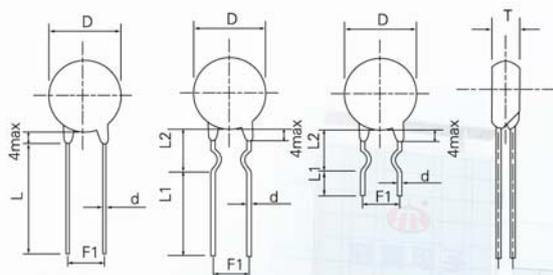
◎ CQC 认证
(File # 04001010556)



◎ TUV 认证
(File # R50245892)

(仅限铜线、硅树脂产品)
(Only for the products with
silicon coating and cu wire)

● 外形尺寸 Dimensions(mm)



直引线
Straight lead

弯引线
Curved lead



江苏省高新技术产品

The Hi & Tech product of Jiangsu province

Characteristics

◎ Small size, strong power and strong capability of surge current protection

◎ Fast response to surge current

◎ Big material constant (B value), Small remain resistance

◎ Longevity of service, High reliability

◎ Integral series, extensive operating range

Applications

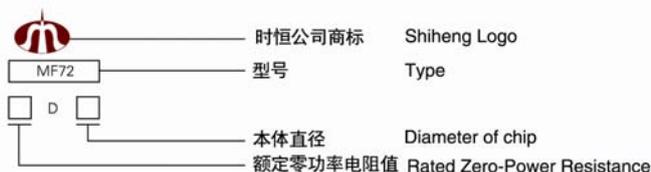
◎ Conversion power-supply, switch power, ups power

◎ Electronic energy saving lamps, electronic ballast and all kinds of electric heater

◎ All kinds of RT, display

◎ Bulb and other lighting lamps

● 产品标志说明 Specification



尺寸 Dim(mm)	代号 Sym	Dmax	T max	d ±0.05	F1 ±1	直引线 Straight lead		弯引线 Curved lead	
						Lmin	L ₁ min	L ₂ ±2	
MF72 □D5		7.0	5	0.6/0.45	5/2.5	25	17/5	8/5	
MF72 □D7		9.0	5	0.6	5	25	17/5	8/5	
MF72 □D9		11.0	5.5	0.8/0.6	7.5/5	25	17/5	8/5	
MF72 □D11		13.0	5.5	0.8	7.5/5	25	17/5	8/5	
MF72 □D13		15.5	6	0.8	7.5	25	17/5	8/5	
MF72 □D15		17.5	6	0.8	10/7.5	25	17/5	8/5	
MF72 □D20		22.5	7	1.0	10/7.5	25	/	/	
MF72 □D25		27.5	8	1.0	10/7.5	25	/	/	



MF72功率型NTC热敏电阻系列

MF72 Power NTC Thermistor series

● 主要技术参数 Main Technical Parameters

型号 Part No MF72	R ₂₅ (Ω)	最大稳态电流 (A) Max. Steady State Current	最大电流时近似 电阻值 (Ω) Approx. R of Max. Cur.(Ω)	耗散系数 约 (mW/°C) Dissi. Coef. (mW/°C)	热时间常数 约 (s) Thermal time Constant(S)	工作温度 (°C) Operating Temp. (°C)	UL
5D5	5	1	0.353	6	20	-40~+150	✓
10D5	10	0.7	0.771	6	20	-40~+150	✓
60D5	60	0.3	1.878	6	18	-40~+150	
200D5	200	0.1	18.70	6	18	-40~+150	✓
5D7	5	2	0.283	10	30	-40~+150	✓
8D7	8	1	0.539	9	28	-40~+150	✓
10D7	10	1	0.616	9	27	-40~+150	✓
12D7	12	1	0.816	9	27	-40~+150	
16D7	16	0.7	1.003	9	27	-40~+150	✓
22D7	22	0.6	1.108	9	27	-40~+150	✓
33D7	33	0.5	1.485	10	28	-40~+150	✓
200D7	200	0.2	11.65	11	28	-40~+150	✓
3D9	3	4	0.120	11	35	-40~+170	✓
4D9	4	3	0.190	11	35	-40~+170	✓
5D9	5	3	0.210	11	34	-40~+170	✓
6D9	6	2	0.315	11	34	-40~+170	✓
8D9	8	2	0.400	11	32	-40~+170	✓
10D9	10	2	0.458	11	32	-40~+170	✓
12D9	12	1	0.652	11	32	-40~+170	✓
16D9	16	1	0.802	11	31	-40~+170	✓
20D9	20	1	0.864	11	30	-40~+170	✓
22D9	22	1	0.950	11	30	-40~+170	✓
30D9	30	1	1.022	11	30	-40~+170	✓
33D9	33	1	1.124	11	30	-40~+170	✓
50D9	50	1	1.252	11	30	-40~+170	✓
60D9	60	0.8	1.502	11	31	-40~+170	✓
80D9	80	0.8	2.010	11	30	-40~+170	✓
120D9	120	0.8	3.015	11	30	-40~+170	✓
200D9	200	0.5	5.007	11	32	-40~+170	✓
400D9	400	0.2	30.30	11	32	-40~+170	✓
2.5D11	2.5	5	0.095	13	43	-40~+170	✓
3D11	3	5	0.100	13	43	-40~+170	✓
4D11	4	4	0.150	13	44	-40~+170	✓
5D11	5	4	0.156	13	45	-40~+170	✓
6D11	6	3	0.240	13	45	-40~+170	✓
8D11	8	3	0.255	14	47	-40~+170	✓
10D11	10	3	0.275	14	47	-40~+170	✓
12D11	12	2	0.462	14	48	-40~+170	✓
16D11	16	2	0.470	14	50	-40~+170	✓
20D11	20	2	0.512	15	52	-40~+170	✓
22D11	22	2	0.563	15	52	-40~+170	✓
30D11	30	1.5	0.667	15	52	-40~+170	✓
33D11	33	1.5	0.734	15	52	-40~+170	✓
50D11	50	1.5	1.021	15	52	-40~+170	✓
60D11	60	1.5	1.215	15	52	-40~+170	✓
80D11	80	1.2	1.656	15	52	-40~+170	✓
1.3D13	1.3	7	0.062	13	60	-40~+200	✓

型号 Part No MF72	R ₂₅ (Ω)	最大稳态电流 (A) Max. Steady State Current	最大电流时近似 电阻值 (Ω) Approx. R of Max. Cur.(Ω)	耗散系数 约 (mW/°C) Dissi. Coef. (mW/°C)	热时间常数 约 (s) Thermal time Constant(S)	工作温度 (°C) Operating Temp. (°C)	UL
1.5D13	1.5	7	0.073	13	60	-40~+200	✓
2.5D13	2.5	6	0.088	13	60	-40~+200	✓
3D13	3	6	0.092	14	60	-40~+200	✓
4D13	4	5	0.120	15	67	-40~+200	✓
5D13	5	5	0.125	15	68	-40~+200	✓
6D13	6	4	0.170	15	65	-40~+200	✓
7D13	7	4	0.188	15	65	-40~+200	✓
8D13	8	4	0.194	15	60	-40~+200	✓
10D13	10	4	0.206	15	65	-40~+200	✓
12D13	12	3	0.316	16	65	-40~+200	✓
15D13	15	3	0.335	16	60	-40~+200	✓
16D13	16	3	0.338	16	60	-40~+200	✓
20D13	20	3	0.372	16	65	-40~+200	✓
30D13	30	2.5	0.517	16	65	-40~+200	✓
47D13	47	2	0.810	17	65	-40~+200	✓
120D13	120	1.2	2.124	17	65	-40~+200	✓
1.3D15	1.3	8	0.048	18	68	-40~+200	✓
1.5D15	1.5	8	0.052	18	69	-40~+200	✓
2.5D15	2.5	7	0.065	18	76	-40~+200	✓
3D15	3	7	0.075	18	76	-40~+200	✓
5D15	5	6	0.112	20	76	-40~+200	✓
6D15	6	5	0.155	20	80	-40~+200	✓
7D15	7	5	0.173	20	80	-40~+200	✓
8D15	8	5	0.178	20	80	-40~+200	✓
10D15	10	5	0.180	20	75	-40~+200	✓
12D15	12	4	0.250	20	75	-40~+200	✓
15D15	15	4	0.268	21	85	-40~+200	✓
16D15	16	4	0.276	21	70	-40~+200	✓
20D15	20	4	0.288	21	86	-40~+200	✓
30D15	30	3.5	0.438	21	75	-40~+200	✓
47D15	47	3	0.680	21	86	-40~+200	✓
120D15	120	1.8	1.652	22	87	-40~+200	✓
0.7D20	0.7	11	0.018	24	89	-40~+200	✓
1.3D20	1.3	9	0.037	24	88	-40~+200	✓
3D20	3	8	0.055	24	88	-40~+200	✓
5D20	5	7	0.087	24	87	-40~+200	✓
6D20	6	6	0.113	25	103	-40~+200	✓
8D20	8	6	0.142	25	105	-40~+200	✓
10D20	10	6	0.162	25	102	-40~+200	✓
12D20	12	5	0.195	25	100	-40~+200	✓
16D20	16	5	0.212	25	100	-40~+200	✓
0.7D25	0.7	12	0.014	30	120	-40~+200	
1.5D25	1.5	10	0.027	30	121	-40~+200	
3D25	3	9	0.044	32	124	-40~+200	
5D25	5	8	0.070	32	125	-40~+200	
8D25	8	7	0.114	33	125	-40~+200	
10D25	10	7	0.130	32	127	-40~+200	
12D25	12	6	0.156	32	126	-40~+200	
16D25	16	6	0.160	35	126	-40~+200	

注: 若非特别指出, R₂₅的允许偏差为±20%

Remark: Unless the particular indication, the allowable tolerance of R₂₅ is ±20%.