



MF11 MF12 Thermistors

Features:

- MF11: High precision
- MF12: Broad range of resistance, the maximum rated resistance can reach 5M Ω good stability.

Application:

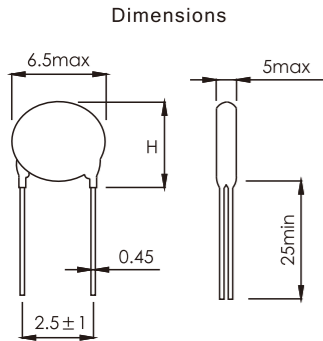
Temperature measurement, temperature compensation in measuring equipments and transistor circuit.

Part number guide:

TR MF11 502 - G 3950 F
① ② ③ ④ ⑤ ⑥

Where:

- ① NTC Thermistor
- ② Compensation NTC
- ③ Rated zero-power resistance at 25°C.
For example: 502 means $R_{25^\circ\text{C}} = 5\text{K}\Omega$
- ④ Resistance tolerance: G ($\pm 2\%$); H ($\pm 3\%$); L ($\pm 5\%$); K ($\pm 10\%$); ($\pm 20\%$)
- ⑤ B Value ($B_{25/50^\circ\text{C}}$): 3950K
- ⑥ B value tolerance; F ($\pm 1\%$); G ($\pm 2\%$); H ($\pm 3\%$)



Typical Products Specifications:

MF11		MF12	
B Value (25/50°C)(K)	Rated resistance at 25°C(Ω)	B Value (25/50°C)(K)	Rated resistance at 25°C(Ω)
2700	3.3~33	4250	6800~68000
2830	6.8~68	4450	15000~150000
2950	15~150	4670	33000~330000
3100	33~330	4800	68000~680000
3250	68~680	5050	150000~5000000
3400	150~1500		
3570	330~3300		
3740	680~6800		
3900	1500~15000		
4050	3300~33000		

Rated zero-power resistance tolerance: G ($\pm 2\%$); H ($\pm 3\%$); T ($\pm 5\%$); K ($\pm 10\%$); L ($\pm 20\%$)
 B value tolerance: $\pm 5\%$
 Measuring power $\leq 0.1\text{mW}$ Rated Power: 0.5W
 Operating temperature: $-55 \sim +125^\circ\text{C}$
 Dissipation Coefficient $r \geq 6\text{mW}/^\circ\text{C}$; Time constant $\leq 30\text{S}$

MF72 Power NTC Thermistor



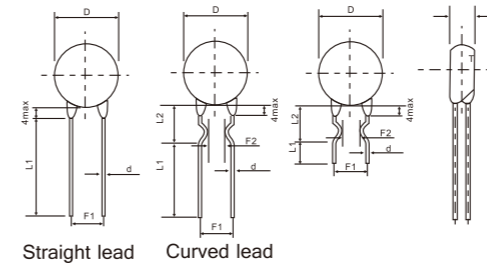
Characteristics:

- ① Small size strong power and strong capability of surge current protection
- ② Fast response to surge current
- ③ Big material constant (B value), Small remain resistance
- ④ Longevity of service, High reliability
- ⑤ Integral series, extensive operating range

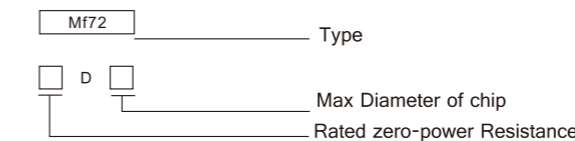
Applications

- ① Cover: lighting power - supply, switch power, ups power
- ② Electronic energy saving lamps, electronic ballast and all kinds of electric heater
- ③ All kinds of RT .display
- ④ Bulb and other lighting lamps

Dimensions:



Specification:



Dim(mm) Part No	Sym	D +1 -2	T max	d ± 0.05	F1 ± 1	F2 ± 1.5	Straight lead		Curved lead	
							Lmin	L1	L2	L2 ± 2
MF72-□D5		6.5	5	0.65/0.45	05/2.5	3	25	17/5	8	
MF72-□D7		8.5	5	0.6	5	3	25	17/5	8	
MF72-□D9		10.5	5.5	0.8/0.6	7.5/5	5/3	25	17/5	8	
MF72-□D11		12.5	5.5	0.8	7.5/5	5/3	25	17/5	8	
MF72-□D13		14.5	6	0.8	7.5	5	25	17/5	8	
MF72-□D15		16.5	6	0.8	10/7.5	5	25	17/5	8	
MF72-□D20		21.5	7	1.0	10/7.5	/	25	/	/	
MF72-□D25		26.5	8	1.0	10	/	25	/	/	

Main Techno-Parameter

Part No	R ₂₅ (Ω)	Max. Steady State Current	Approx. R of Max. Cue. (Ω)	Dissi. Coef (mW/°C)	Thermal time Constant(S)	Operating Temp. (°C)
2.5D11	2.5	5	0.095	13	43	
3D11	3	5	0.100	13	43	
4D11	4	4	0.150	13	44	
5D11	5	4	0.156	13	45	
6D11	6	3	0.240	13	45	
8D11	8	3	0.255	14	47	
10D11	10	3	0.275	14	47	
12D11	12	2	0.462	14	48	
16D11	16	2	0.470	14	50	
20D11	20	2	0.512	15	52	
22D11	22	2	0.563	15	52	
30D11	30	1.5	0.667	15	52	
33D11	33	1.5	0.734	15	52	
50D11	50	1.5	1.021	15	52	
60D11	60	1.5	1.215	15	52	
80D11	80	1.2	1.656	15	52	
1.3D13	1.3	7	0.062	13	60	
1.5D13	1.5	7	0.073	13	60	
2.5D13	2.5	6	0.088	13	60	
3D13	3	6	0.092	14	60	
4D13	4	5	0.120	15	67	
5D13	5	5	0.125	15	68	
6D13	6	4	0.170	15	65	
7D13	7	4	0.188	15	65	
8D13	8	4	0.194	15	60	
10D13	10	4	0.206	15	65	
12D13	12	3	0.316	16	65	
15D13	15	3	0.335	16	60	
16D13	16	3	0.338	16	60	
20D13	20	3	0.372	16	65	
30D13	30	2.5	0.517	16	65	
47D13	47	2	0.810	17	65	
12D13	120	1.5	2.124	16	65	
1.3D15	1.3	8	0.048	18	68	
1.5D15	1.5	8	0.052	19	69	
3D15	3	7	0.075	18	76	
5D15	5	6	0.112	20	76	
6D15	6	5	0.155	20	80	
7D15	7	5	1.173	20	80	
8D15	8	5	0.178	20	80	
10D15	10	5	0.180	20	75	
12D15	12	4	0.250	20	75	
15D15	15	4	0.268	21	85	
16D15	16	4	0.276	21	70	
20D15	20	4	0.288	17	86	
30D15	30	3.5	0.438	18	75	
47D15	47	3	0.680	21	86	
120D15	120	2.5	1.652	22	87	
0.7D20	0.7	12	0.018	25	112	
1.3D20	1.3	9	0.037	24	113	
3D20	3	8	0.055	24	113	
5D20	5	7	0.087	23	112	
6D20	6	6	0.113	25	114	
8D20	8	6	0.142	25	115	
10D20	10	6	0.162	24	113	
12D20	12	5	0.195	24	114	
16D20	16	5	0.212	25	113	
0.7D25	0.7	13	0.014	30	151	
1.5D25	1.5	10	0.027	30	152	
3D25	3	9	0.044	32	150	
5D25	5	8	0.070	32	151	
8D25	8	7	0.114	33	151	
10D25	10	7	0.130	32	150	
12D25	12	6	0.156	32	150	
16D25	16	6	0.160	35	152	

Remark: Unless the particular indication, the allowable tolerance of R_{25} is $\pm 20\%$.