

NTC Thermistor Series

KLS6-MF72 Power NTC Thermistors Series

1. Introduction

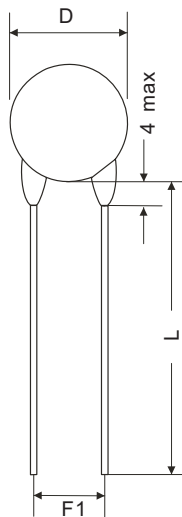
An NTC thermistor has to be connected in series to the power source circuit to avoid the surge current at the instant when the electronic circuits are turned on. The device can effectively suppress the surge current, and its resistance and power consumption can be greatly reduced after that through the continuous effect of the current so as not to affect the normal work current. Therefore the Power NTC thermistor is the most convenient and efficient instrument to curb the surge current and protect the electronic devices from being damaged.

2. Applications

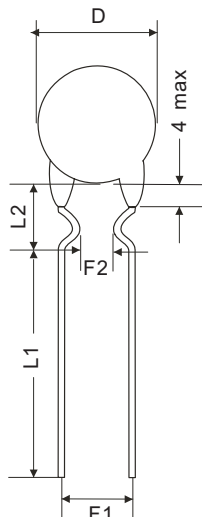
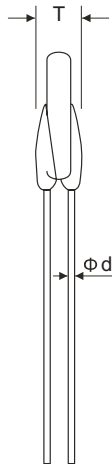
Applicable to the protection of the power circuits of conversion power supply, switching power supply, UPS power supply, electric heaters, electronic energy-saving amps, electronic ballasts and other electronic devices, and the filament protection of color picture tubes, incandescent amps and other lights.

3. Characteristics:

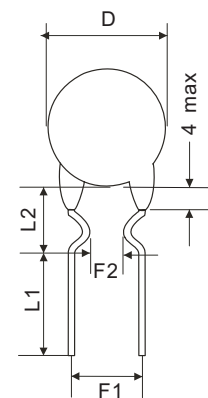
Small size, Strong power and strong capability of surge current protection.
 Characteristics Fast response to the rapidly surge.
 Big material constant (B value), Small remain resistance.
 Longevity of service, High reliability.
 Integral series, Extensive operating range.



I

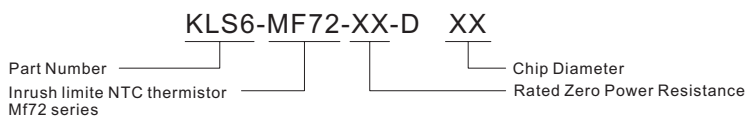


II



III

ORDER INFORMATION



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Part No.	D (mm) +1/-2	Tmax	d ±0.05	F1 ±1	F2 ±1.5	Straight lead		Curved Lead Wire	
						Lmin	L 1 min	L 2 ±2	
MF72-□D5	6	5	0.6/0.45	5/2.5	3	25	17/5	8	
MF72-□D7	8	5	0.6	5	3	25	17/5	8	
MF72-□D9	9	5.5	0.8/0.6	7.5/5	5/3	25	17/5	8	
MF72-□D11	11	5.5	0.8/0.6	7.5/5	5/3	25	17/5	8	
MF72-□D13	13.5	6	0.8	7.5	5	25	17/5	8	
MF72-□D15	15.5	6	0.8	10/7.5	5	25	17/5	8	
MF72-□D20	21	7	1.0	10/7.5	/	25	/	/	
MF72-□D25	26	8	1.0	10	/	25	/	/	
Remark	a、□ rated zero-power resistance b、17/5 17 show the long bend lead wire 5 shows the short bend lead wire.								

Illustration: In general, the long bend lead wire is used, name shape is II.

Main Techno-Parameter

Part NO.	R ₂₅	Max. Steady State Current	Approx. R of Max. Cur	Dissi. Coef.	Thermal time Constant	Operating Temp.
	(Ω)	(A)	(Ω)	(mW/°C)	(S)	(°C)
MF72-5D5	5	1	0.353	6	20	-55~+200
MF72-10D5	10	0.7	0.771	6	20	
MF72-60D5	60	0.5	1.878	6	18	
MF72-200D5	200	0.1	6.259	6	18	
MF72-5D7	5	2	0.283	10	30	
MF72-8D7	8	1	0.539	9	28	
MF72-10D7	10	1	0.616	9	27	
MF72-12D7	12	1	0.816	9	27	
MF72-16D7	16	0.7	1.003	9	27	
MF72-22D7	22	0.6	1.108	9	27	
MF72-33D7	33	0.5	1.485	10	28	
MF72-200D7	200	0.2	6.233	11	28	
MF72-3D9	3	4	0.12	11	35	
MF72-4D9	4	3	0.19	11	35	
MF72-5D9	5	3	0.21	11	34	
MF72-6D9	6	2	0.315	11	34	
MF72-8D9	8	2	0.4	11	32	
MF72-10D9	10	2	0.458	11	32	
MF72-12D9	12	1	0.652	11	32	
MF72-16D9	16	1	0.802	11	31	
MF72-20D9	20	1	0.864	11	30	
MF72-22D9	22	1	0.95	11	30	
MF72-30D9	30	1	1.022	11	30	
MF72-33D9	33	1	1.124	11	30	
MF72-50D9	50	1	1.252	11	30	
MF72-60D9	60	0.8	1.502	11	30	
MF72-80D9	80	0.8	2.01	11	30	
MF72-120D9	120	0.8	3.015	11	30	
MF72-200D9	200	0.5	5.007	11	32	
MF72-400D9	400	0.2	9.852	11	32	

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	(Ω)	(A)	(Ω)	(mW/°C)	(S)	(°C)
MF72-2.5D11	2.5	5	0.095	13	43	-55~+200
MF72-3D11	3	5	0.1	13	43	
MF72-4D11	4	4	0.15	13	44	
MF72-5D11	5	4	0.156	13	45	
MF72-6D11	6	3	0.24	13	45	
MF72-8D11	8	3	0.255	14	47	
MF72-10D11	10	3	0.275	14	47	
MF72-12D11	12	2	0.462	14	48	
MF72-16D11	16	2	0.47	14	50	
MF72-20D11	20	2	0.512	15	52	
MF72-22D11	22	2	0.563	15	52	
MF72-30D11	30	1.5	0.667	15	52	
MF72-33D11	33	1.5	0.734	15	52	
MF72-50D11	50	1.5	1.021	15	52	
MF72-60D11	60	1.5	1.215	15	52	
MF72-80D11	80	1.2	1.656	15	52	
MF72-1.3D13	1.3	7	0.062	13	60	
MF72-1.5D13	1.5	7	0.073	13	60	
MF72-2.5D13	2.5	6	0.088	13	60	
MF72-3D13	3	6	0.092	14	60	
MF72-4D13	4	5	0.12	15	67	
MF72-5D13	5	5	0.125	15	68	
MF72-6D13	6	4	0.17	15	65	
MF72-7D13	7	4	0.188	15	65	
MF72-8D13	8	4	0.194	15	60	
MF72-10D13	10	4	0.206	15	65	
MF72-12D13	12	3	0.316	16	65	
MF72-15D13	15	3	0.335	16	60	
MF72-16D13	16	3	0.338	16	60	
MF72-20D13	20	3	0.372	16	65	
MF72-30D13	30	2.5	0.517	16	65	
MF72-47D13	47	2	0.81	17	65	
MF72-120D13	120	1.5	2.124	16	65	
MF72-1.3D15	1.3	8	0.048	18	68	
MF72-1.5D15	1.5	8	0.052	19	69	
MF72-3D15	3	7	0.075	18	76	
MF72-5D15	5	6	0.112	20	76	
MF72-6D15	6	5	0.155	20	80	
MF72-7D15	7	5	0.173	20	80	
MF72-8D15	9	5	0.178	20	80	
MF72-10D15	10	5	0.18	20	75	
MF72-12D15	12	4	0.25	20	75	
MF72-15D15	15	4	0.268	21	85	
MF72-16D15	16	4	0.276	21	70	



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VI

Part NO.	R ₂₅	Max. Steady State Current	Approx. R of Max. Cur	Dissi, Coef.	Thermal time Constant	Operating Temp.
	(Ω)	(A)	(Ω)	(mW/ $^{\circ}$ C)	(S)	($^{\circ}$ C)
MF72-20D15	20	4	0.288	17	86	-55~+200
MF72-30D15	30	3.5	0.438	18	75	
MF72-47D15	47	3	0.68	21	86	
MF72-120D15	120	2.5	1.652	22	87	
MF72-0.7D20	0.7	12	0.018	25	89	
MF72-1.3D20	1.3	9	0.037	24	88	
MF72-3D20	3	8	0.055	24	88	
MF72-5D20	5	7	0.087	23	87	
MF72-6D20	6	6	0.113	25	103	
MF72-8D20	8	6	0.142	25	105	
MF72-10D20	10	6	0.162	24	102	
MF72-12D20	12	5	0.195	24	100	
MF72-16D20	16	5	0.212	25	100	
MF72-0.7D25	0.7	13	0.014	30	120	
MF72-1.5D25	1.5	10	0.027	30	121	
MF72-3D25	3	9	0.044	32	124	
MF72-5D25	5	8	0.07	32	125	
MF72-8D25	8	7	0.114	33	125	
MF72-10D25	10	7	0.13	32	127	
MF72-12D25	12	6	0.156	32	126	
MF72-16D25	16	6	0.16	35	126	