

MF71/11系列 NTC热敏电阻器

Series MF71/11 NTC thermistors

● 特点及用途 FEATURES & APPLICATIONS

- ▶ NTC热敏电阻器是一种负温度系数热敏电阻器，该产品的电阻值随温度升高而降低，根据其用途封装成各种形状以及具有不同的技术指标。

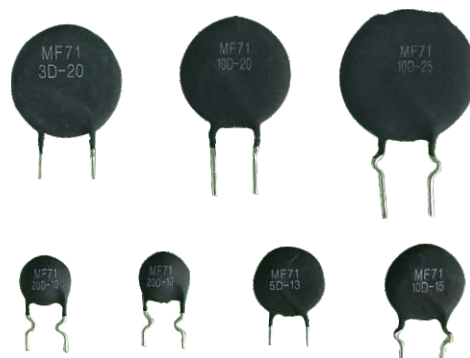
NTC thermistor is a kind of resistor with negative temperature coefficient. It's resistance decreases with the temperature rising. According to its different uses, the thermostats may be packaged in various forms with different performances.

- ▶ MF71主要用于开关电源、集成电路、可控硅以及电子线路的抑制浪涌电流、过电压保护等。

Series MF71 products are applied to restrain surge current and protect overvoltage in various power supplies, IC , electric circuit.

- ▶ MF11产品主要用于温度补偿、温度测量线路

Series MF11 products are widely applied to compensate temperature variation and measure temperature.



● 外形尺寸 DIMENSIONS

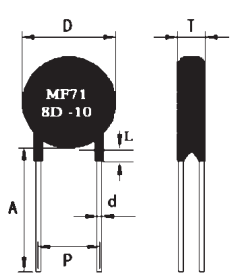
K脚型 K lead type

脚型Style	内弯Inside Bend (I)	外弯Outside bend (O)	轴弯Y shape (Y)
外观 Appearance			
线材Lead wire	铜线或者CP线 Copper or CP wire	铜线或者CP线 Copper or CP wire	铜线或者CP线 Copper or CP wire
包封料Coating	硅酮或者酚醛 Silicone or phenolic aldehyde	硅酮或者酚醛 Silicone or phenolic aldehyde	硅酮或者酚醛 Silicone or phenolic aldehyde

尺寸Dimensions(mm)

型号 Type	尺寸Dimensions(mm)						K脚 K lead
	Dmax	P ± 1	L ± 2	Tmax	A ± 0.8	d ± 0.05	
MF71-05D	6.5	5	5	5	3.5	0.6	I,O,Y
MF71-08D	9.5	5/7.5	5	5	3.5	0.6	
MF71-10D	11.5	5/7.5	5	5	3.5	0.8	
MF71-13D	14.5	7.5	5	6	3.5	0.8	
MF71-15D	16.5	7.5	5	6	3.5	1.0	
MF71-20D	25	7.5/10	5	8	4.5	1.0	
MF71-25D	30	7.5/10	5	8	4.5	1.0	
MF71-30D	35	7.5/10	5	8	4.5	1.0	

直脚型 Straight lead type



型号 Type	尺寸Dimensions(mm)					
	Dmax	Amin	L ± 1	Tmax	P ± 1	d ± 0.05
Mf11	6.5	22	2	4.5	5	0.45
MF71-05D	6.5	22	2	5	5	0.6
MF71-08D	9.5	22	2	5	5/7.5	0.6
MF71-10D	11.5	15	2	5	5/7.5	0.8
MF71-13D	14.5	15	2	6	7.5	0.8
MF71-15D	16.5	15	2	6	7.5	1.0
MF71-20D	25	7	3	8	7.5/10	1.0
MF71-25D	30	7	3	8	7.5/10	1.0
MF71-30D	35	7	3	8	7.5/10	1.0

● 技术说明 TECHNICAL SPECIFICATIONS

表1 MF11主要参数 Table 1 Main parameters of Mf11

标称阻值 Nominal resistance(Ω)	B值范围 B constant range(K)	电阻温度系数 T.C.R. ($\times 10^{-2}/^{\circ}\text{C}$)	额定功率 Power rating (W)	耗散系数 Dissipation factor($\text{mw}/^{\circ}\text{C}$)	热时间常数 Thermal time constant (s)	工作温度 Operation temperature($^{\circ}\text{C}$)
10~100	1980~2420	-(2.23~2.72)	0.25	≥ 5	≤ 30	-40 ~ +125
110~4.7K	2430~2970	-(2.73~3.34)				
5.1K~15K	2970~3630	-(3.35~4.09)				

表2 MF71主要参数 Table 2 Main parameters of Mf71

型号规格 Type	零功率电阻值 Zero-power resistance (Ω) ± 20%	B值 B constant (K) ± 10%	最大稳态电流 Maximum static current Imax(A)	试验电容 Experimental capacitance (μ F)(240V)	额定功率 Power Rating (W)	耗散系数 Dissipation factor ($\text{mw}/^{\circ}\text{C}$)	热时间常数 Thermal time constant(s)	工作温度 Operation temperature ($^{\circ}\text{C}$)
MF71-5D-5	5	2500	2	100	1.8	About15	About17	-40~+150
MF71-8D-5	8	2500	1	68	1.8	About15	About17	-40~+150
MF71-10D-5	10	2500	1	100	1.8	About15	About17	-40~+150
MF71-12D-5	12	2500	1	68	1.8	About15	About17	-40~+150
MF71-15D-5	15	2550	0.5	100	1.8	About15	About17	-40~+150
MF71-20D-5	20	2550	0.4	100	1.8	About15	About17	-40~+150
MF71-3D-8	3	2600	3	220	2.3	About16	About38	-40~+170
MF71-4D-8	4	2600	3	220	2.3	About16	About38	-40~+170
MF71-4.7D-8	4.7	2600	3	220	2.3	About16	About38	-40~+170
MF71-5D-8	5	2600	3	220	2.3	About16	About38	-40~+170
MF71-6D-8	6	2600	3	220	2.3	About16	About38	-40~+170
MF71-7D-8	7	2600	3	220	2.3	About16	About38	-40~+170
MF71-8D-8	8	2600	3	220	2.3	About16	About38	-40~+170
MF71-10D-8	10	2650	2	220	2.3	About16	About38	-40~+170

型号规格 Type	零功率电阻值 Zero-power resistance (Ω) $\pm 20\%$	B值 B constant (K) $\pm 10\%$	最大稳态电流 Maximum static current I _{max} (A)	试验电容 Experimental capacitance (μ F)(240V)	额定功率 Power Rating (W)	耗散系数 Dissipation factor (mw / $^{\circ}$ C)	热时间常数 Thermal time constant(s)	工作温度 Operation temperature ($^{\circ}$ C)
MF71-12D-8	12	2650	2	100	2.3	About16	About38	-40~+170
MF71-15D-8	15	2650	2	100	2.3	About16	About38	-40~+170
MF71-20D-8	20	2700	1	100	2.3	About16	About38	-40~+170
MF71-30D-8	30	2700	0.5	100	2.3	About16	About38	-40~+170
MF71-1D-10	1	2650	5	470	2.4	About17	About43	40~+170
MF71-1.3D-10	1.3	2650	5	330	2.4	About17	About43	40~+170
MF71-1.5D-10	1.5	2650	5	330	2.4	About17	About43	40~+170
MF71-2.5D-10	2.5	2700	5	470	2.4	About17	About43	40~+170
MF71-3D-10	3	2700	5	560	2.4	About17	About43	40~+170
MF71-4D-10	4	2700	4	560	2.4	About17	About43	40~+170
MF71-4.7D-10	4.7	2700	4	470	2.4	About17	About43	40~+170
MF71-5D-10	5	2750	4	330	2.4	About17	About43	40~+170
MF71-6.8D-10	6.8	2750	3	330	2.4	About17	About43	40~+170
MF71-8D-10	8	2750	3	330	2.4	About17	About43	40~+170
MF71-10D-10	10	2750	3	330	2.4	About17	About43	40~+170
MF71-12D-10	12	2800	3	220	2.4	About17	About43	40~+170
MF71-13D-10	13	2800	3	330	2.4	About17	About43	40~+170
MF71-15D-10	15	2800	2.5	330	2.4	About17	About43	40~+170
MF71-16D-10	16	2800	2.5	220	2.4	About17	About43	40~+170
MF71-20D-10	20	2850	2	200	2.4	About17	About43	40~+170
MF71-22D-10	22	2850	2	330	2.4	About17	About43	40~+170
MF71-25D-10	25	2850	2	470	2.4	About17	About43	40~+170
MF71-30D-10	30	2900	2	560	2.4	About17	About43	40~+170
MF71-47D-10	47	2900	2	560	2.4	About17	About43	40~+170
MF71-50D-10	50	2900	2	470	2.4	About17	About43	40~+170
MF71-80D-10	80	2950	1	330	2.4	About17	About43	40~+170
MF71-100D-10	100	2950	1	220	2.4	About17	About43	40~+170
MF71-120D-10	120	2950	1	220	2.4	About17	About43	40~+170
MF71-1D-13	1	2800	3	560	3.1	About18	About66	-40~+200
MF71-1.3D-13	1.3	2800	7	470	3.1	About18	About66	-40~+200
MF71-2.5D-13	2.5	2800	6	470	3.1	About18	About66	-40~+200
MF71-4D-13	4	2850	5	560	3.1	About18	About66	-40~+200
MF71-4.7D-13	4.7	2850	5	560	3.1	About18	About66	-40~+200
MF71-5D-13	5	2850	5	560	3.1	About18	About66	-40~+200
MF71-7D-13	7	2850	4	470	3.1	About18	About66	-40~+200
MF71-8D-13	8	2900	4	470	3.1	About18	About66	-40~+200
MF71-10D-13	10	2900	4	470	3.1	About18	About66	-40~+200
MF71-12D-13	12	2900	4	470	3.1	About18	About66	-40~+200

型号规格 Type	零功率电阻值 Zero-power resistance (Ω) $\pm 20\%$	B值 B constant (K) $\pm 10\%$	最大稳态电流 Maximum static current I _{max} (A)	试验电容 Experimental capacitance (μ F)(240V)	额定功率 Power Rating (W)	耗散系数 Dissipation factor (mw / $^{\circ}$ C)	热时间常数 Thermal time constant(s)	工作温度 Operation temperature ($^{\circ}$ C)
MF71-15D-13	15	2950	3	560	3.1	About18	About66	-40~+200
MF71-16D-13	16	2950	3	560	3.1	About18	About66	-40~+200
MF71-18D-13	18	2950	3	470	3.1	About18	About66	-40~+200
MF71-20D-13	20	2950	3	470	3.1	About18	About66	-40~+200
MF71-0.7D-15	0.7	2800	8	680	3.6	About21	About75	-40~+200
MF71-1D-15	1	2800	8	680	3.6	About21	About75	-40~+200
MF71-1.3D-15	1.3	2800	8	820	3.6	About21	About75	-40~+200
MF71-1.5D-15	1.5	2800	8	680	3.6	About21	About75	-40~+200
MF71-2D-15	2	2800	8	820	3.6	About21	About75	-40~+200
MF71-2.5D-15	2.5	2850	8	820	3.6	About21	About75	-40~+200
MF71-3D-15	3	2850	7	820	3.6	About21	About75	-40~+200
MF71-4D-15	4	2850	6	680	3.6	About21	About75	-40~+200
MF71-5D-15	5	2850	6	820	3.6	About21	About75	-40~+200
MF71-6D-15	6	2900	5	680	3.6	About21	About75	-40~+200
MF71-7D-15	7	2900	5	820	3.6	About21	About75	-40~+200
MF71-8D-15	8	2900	5	820	3.6	About21	About75	-40~+200
MF71-10D-15	10	2950	5	680	3.6	About21	About75	-40~+200
MF71-12D-15	12	2950	5	680	3.6	About21	About75	-40~+200
MF71-15D-15	15	3000	4	680	3.6	About21	About75	-40~+200
MF71-16D-15	16	3000	4	820	3.6	About21	About75	-40~+200
MF71-18D-15	18	3000	4	680	3.6	About21	About75	-40~+200
MF71-20D-15	20	3000	4	820	3.6	About21	About75	-40~+200
MF71-22D-15	22	3050	4	820	3.6	About21	About75	-40~+200
MF71-25D-15	25	3050	3	820	3.6	About21	About75	-40~+200
MF71-30D-15	30	3050	3	680	3.6	About21	About75	-40~+200
MF71-33D-15	33	3100	3	820	3.6	About21	About75	-40~+200
MF71-40D-15	40	3100	3	680	3.6	About21	About75	-40~+200
MF71-47D-15	47	3100	3	820	3.6	About28	About75	-40~+200
MF71-0.7D-20	0.7	2900	15	1000	4.9	About28	About113	-40~+200
MF71-1D-20	1	2900	13	1000	4.9	About28	About113	-40~+200
MF71-1.5D-20	1.5	2900	10.5	1000	4.9	About28	About113	-40~+200
MF71-2D-20	2	2900	10	1000	4.9	About28	About113	-40~+200
MF71-2.5D-20	2.5	2950	9	1000	4.9	About28	About113	-40~+200
MF71-3D-20	3	2950	8	1000	4.9	About28	About113	-40~+200
MF71-4D-20	4	2950	8	1000	4.9	About28	About113	-40~+200
MF71-4.7D-20	4.7	2950	7.5	1000	4.9	About28	About113	-40~+200
MF71-5D-20	5	2950	7	1000	4.9	About28	About113	-40~+200
MF71-6D-20	6	3000	7	1000	4.9	About28	About113	-40~+200

型号规格 Type	零功率电阻值 Zero-power resistance (Ω) $\pm 20\%$	B值 B constant (K) $\pm 10\%$	最大稳态电流 Maximum static current I _{max} (A)	试验电容 Experimental capacitance (μ F)(240V)	额定功率 Power Rating (W)	耗散系数 Dissipation factor (mw / $^{\circ}$ C)	热时间常数 Thermal time constant(s)	工作温度 Operation temperature ($^{\circ}$ C)
MF71-6.8D-20	6.8	3000	6.5	1000	4.9	About28	About113	-40~+200
MF71-7D-20	7	3000	6.5	1000	4.9	About28	About113	-40~+200
MF71-8D-20	8	3000	6	1000	4.9	About28	About113	-40~+200
MF71-10D-20	10	3100	5	1000	4.9	About28	About113	-40~+200
MF71-12D-20	12	3100	5	1000	4.9	About28	About113	-40~+200
MF71-13D-20	13	3100	5	1000	4.9	About28	About113	-40~+200
MF71-15D-20	15	3100	4.5	1000	4.9	About28	About113	-40~+200
MF71-16D-20	16	3150	4.5	1000	4.9	About28	About113	-40~+200
MF71-18D-20	18	3150	4	1000	4.9	About28	About113	-40~+200
MF71-20D-20	20	3150	4	1000	4.9	About28	About113	-40~+200
MF71-0.7D-25	0.7	2950	20	1200	7.0	About30	About130	-40~+200
MF71-1D-25	1	2950	20	1200	7.0	About30	About130	-40~+200
MF71-1.5D-25	1.5	2950	18.5	1200	7.0	About30	About130	-40~+200
MF71-2.5D-25	2.5	3000	15	1200	7.0	About30	About130	-40~+200
MF71-3D-25	3	3000	14.5	1200	7.0	About30	About130	-40~+200
MF71-4D-25	4	3000	14	1200	7.0	About30	About130	-40~+200
MF71-5D-25	5	3000	12	1200	7.0	About30	About130	-40~+200
MF71-6D-25	6	3150	11	1200	7.0	About30	About130	-40~+200
MF71-8D-25	8	3150	9	1200	7.0	About30	About130	-40~+200
MF71-10D-25	10	3150	8	1200	7.0	About30	About130	-40~+200
MF71-12D-25	12	3200	7.5	1200	7.0	About30	About130	-40~+200
MF71-15D-25	15	3200	6.5	1200	7.0	About30	About130	-40~+200
MF71-20D-25	20	3200	5	1200	7.0	About30	About130	-40~+200
MF71-0.5D-30	0.5	3000	30	1500	8.0	About40	About190	-40~+200
MF71-1D-30	1	3000	30	1500	8.0	About40	About190	-40~+200
MF71-1.5D-30	1.5	3000	25	1500	8.0	About40	About190	-40~+200
MF71-2.5D-30	2.5	3150	18	1500	8.0	About40	About190	-40~+200
MF71-3D-30	3	3150	17	1500	8.0	About40	About190	-40~+200
MF71-4D-30	4	3150	16	1500	8.0	About40	About190	-40~+200
MF71-5D-30	5	3150	14	1500	8.0	About40	About190	-40~+200
MF71-6D-30	6	3200	12	1500	8.0	About40	About190	-40~+200
MF71-8D-30	8	3200	10.5	1500	8.0	About40	About190	-40~+200
MF71-10D-30	10	3200	10	1500	8.0	About40	About190	-40~+200
MF71-15D-30	15	3250	8	1500	8.0	About40	About190	-40~+200
MF71-20D-30	20	3300	6	1500	8.0	About40	About190	-40~+200