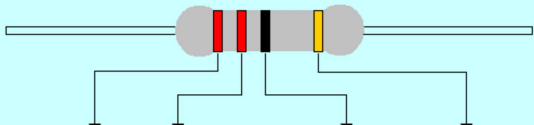


Artikel Nummer 424050 - 424218


Metallfilmwiderstand, Serie MF0207, 0,6 W

Toleranz 1%

**TOKEN RESISTOR COLOR CODE**



COLOR	1ST BAND	2ND BAND	3TH BAND	MULTIPLIER	TOLERANCE
BLACK	0	0	0	1	
BROWN	1	1	1	10	± 1% F
RED	2	2	2	100	± 2% G
ORANGE	3	3	3	1K	
YELLOW	4	4	4	10K	
GREEN	5	5	5	100K	± 0.5% D
BLUE	6	6	6	1M	± 0.25% C
VIOLET	7	7	7	10M	± 0.10% B
GREY	8	8	8		± 0.05% A
WHITE	9	9	9		
GOLD				0.1	± 5% J
SILVER				0.01	± 10% K
PLAIN					± 20% M



Wertangabe Farbcode  
mit 5 Ringen



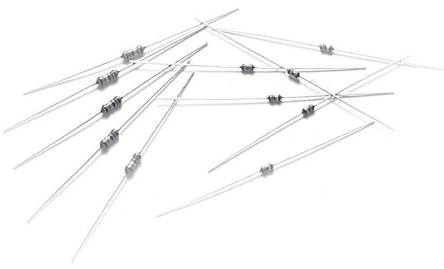
Bitte beachten: Aufgrund von unterschiedlichen Lieferanten kann nicht garantiert werden, daß immer exakt der gleiche Typ vorrätig ist!

Wir sind aber bemüht, evt. Abweichungen so gering wie möglich zu halten.  
Die grundsätzliche Funktionalität ist jedoch sichergestellt.

## Metal Film Resistors

# Professional Type

## Miniature Style [ MF0 Series ]



### INTRODUCTION

The MF0 Series Metal Film Professional Resistors are manufactured using vacuum sputtering system to deposit multiple layers of mixed metals alloy and passive materials onto a carefully treated high grade ceramic substrate. After a helical groove has been cut in the resistive layer, tinned connecting leads of electrolytic copper are welded to the end-caps. The resistors are coated with layers of blue color lacquer.

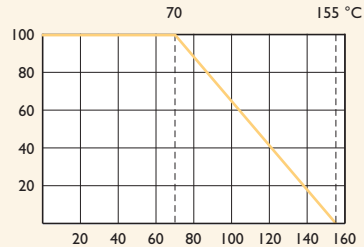
### FEATURES

Power Rating	0.4W, 0.6W
Resistance Tolerance	±1%
T.C.R.	±50ppm/°C

### DERATING CURVE

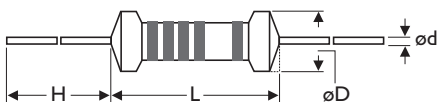
For resistors operated in ambient temperatures above 70°C, power rating must be derated in accordance with the curve below.

Rated Load (%)



Ambient Temperature (°C)

### DIMENSIONS



Unit: mm

STYLE	DIMENSION			
Miniature	L	øD	H	ød
MF0204	3.4±0.3	1.9±0.2	28±2.0	0.45±0.05
MF0207	6.3±0.5	2.4±0.2	28±2.0	0.55±0.05

Note:

## ELECTRICAL CHARACTERISTICS

STYLE	MF0204	MF0207
Power Rating at 70°C	0.4W	0.6W
Maximum Working Voltage	250V	350V
Maximum Overload Voltage	500V	700V
Dielectric Withstanding Voltage	300V	500V
Resistance Range	1 $\Omega$ - 10M $\Omega$ & 0 $\Omega$ for E24 & E96 series value	
Operating Temp. Range	-55°C to +155°C	
Temperature Coefficient	$\pm 50\text{ppm}/^\circ\text{C}$	

Note: Special value is available on request

## ENVIRONMENTAL CHARACTERISTICS

PERFORMANCE TEST	TEST METHOD		APPRAISE
Short Time Overload	JIS-C-5202 5.5	2.5 times RCWV for 5 Sec.	$\pm 0.25\% + 0.05 \Omega$
Dielectric Withstanding Voltage	JIS-C-5202 5.7	in V-Block for 60 Sec.	By type
Temperature Coefficient	JIS-C-5202 5.2	-55°C to +155°C	By type
Insulation Resistance	JIS-C-5202 5.6	in V-Block	> 10,000M
Solderability	JIS-C-5202 6.5	260 $\pm 5^\circ\text{C}$ for 5 $\pm 0.5$ Sec.	95% Min. coverage
Resistance to Solvent	JIS-C-5202 6.9	IPA for 1 Min. with ultrasonic	No deterioration of coatings and markings
Terminal Strength	JIS-C-5202 6.1	Direct load for 10 Sec. in the direction of the terminal leads	$\geq 2.5\text{kg}$ (24.5N)
Pulse Overload	JIS-C-5202 5.8	4 times RCWV 10,000 cycles (1 Sec. on, 25 Sec. off)	$\pm 1.0\% + 0.05 \Omega$
Load Life in Humidity	JIS-C-5202 7.9	40 $\pm 2^\circ\text{C}$ , 90-95% RH at RCWV for 1,000 Hr. (1.5 Hr. on, 0.5 Hr. off)	$\pm 1.5\% + 0.05 \Omega$
Load Life	JIS-C-5202 7.10	70°C at RCWV for 1,000 Hr. (1.5 Hr. on, 0.5 Hr. off)	$\pm 1.5\% + 0.05 \Omega$
Temperature Cycling	JIS-C-5202 7.4	-55°C $\Rightarrow$ Room Temp. $\Rightarrow$ +155°C $\Rightarrow$ Room Temp. (5 cycles)	$\pm 0.75\% + 0.05 \Omega$
Resistance to Soldering Heat	JIS-C-5202 6.4	350 $\pm 10^\circ\text{C}$ for 3 $\pm 0.5$ Sec.	$\pm 0.25\% + 0.05 \Omega$

Note: Rated Continuous Working Voltage (RCWV) =  $\sqrt{\text{Power Rating} \times \text{Resistance Value}}$