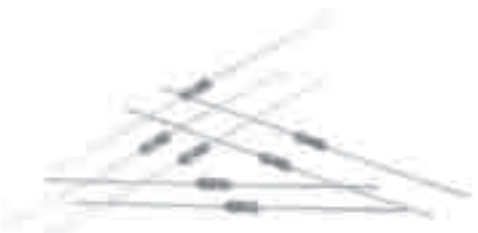


Metal Film Resistors

MFL Type

Low Values Style [MFL Series]



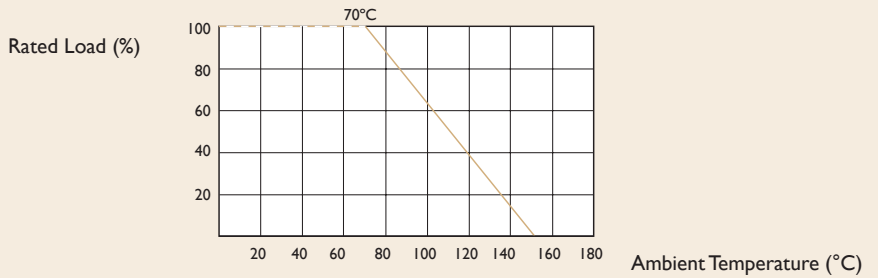
INTRODUCTION

The MFL Series Metal Film Low Values Resistors are manufactured using vacuum sputtering system to deposit multiple layers of mixed metals and passivative materials onto a carefully treated high grade ceramic substrate, the resistors are coated with layers of blue lacquer.

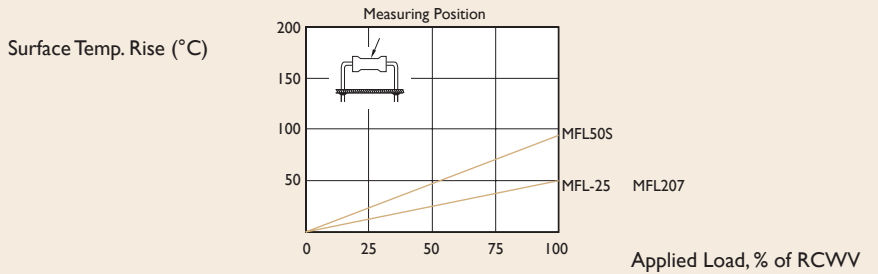
FEATURES

Power Rating	1/4W , 1/2W , 0.6W
Resistance Tolerance	±1%
T.C.R	100ppm/°C

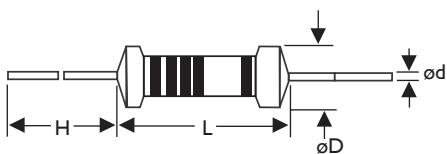
DERATING CURVE



HOT-SPOT TEMPERATURE



DIMENSIONS



Unit : mm

STYLE		DIMENSION			
Normal	Miniature	L	øD	H	ød
MFL-25	MFL50S	6.3±0.5	2.4±0.2	28±2.0	0.6±0.05
	MFL207	6.3±0.5	2.4±0.2	28±2.0	0.6±0.05

Note :

ELECTRICAL CHARACTERISTICS

STYLE	MFL-25	MFL50S	MFL207
Power Rating at 70°C	1/4W	1/2W	0.6W
Operating Temp. Range	- 55°C to +155°C		
Maximum Working Voltage	250V	300V	300V
Maximum Overload Voltage	500V	600V	600V
Dielectric Withstanding Voltage	500V	500V	500V
Value Range , ±1%	OR1Ω~OR91Ω for E24 Series values		
Temperature Coefficient(by Type)	±100ppm/°C		

* Resistance range for standard resistance , below or over this resistance on request.

ENVIRONMENTAL CHARACTERISTICS

PERFORMANCE TEST	TEST METHOD		APPRAISE
Short Time Overload	JIS-C-5202 5.5	2.5 Times RCWV for 5 Seconds	±(0.25%+0.05Ω)
Dielectric Withstanding Voltage	JIS-C-5202 5.7	in V-Block for 60 Seconds	by Type
Temperature Coefficient of Resistance	JIS-C-5202 5.2	-55°C to +155°C	by Type
Insulation Resistance	JIS-C-5202 5.6	in V-Block	>10000MΩ
Solderability	JIS-C-5202 6.5	235±5°C for 5±0.5 Seconds	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	Direct Load for 10 Sec. in The Direction of The Terminal Leads		≥2.5kg (24.5N)
Pulse Overload	JIS-C-5202 5.8	4 Times RCWV 10000 Cycles (1 Sec. on , 25 Sec. off)	±(1%+0.05Ω)
Load Life in Humidity	JIS-C-5202 7.9	40±2°C, 90~95% RH at RCWV for 1000 Hrs. (1.5 Hrs. on , 0.5 Hrs. off)	±(1.5%+0.05Ω)
Load Life	JIS-C-5202 7.10	70°C at RCWV for 1000 Hrs. (1.5 Hrs. on , 0.5 Hrs. off)	±(1.5%+0.05Ω)
Temperature Cycling	JIS-C-5202 7.4	-55°C→Room Temp.→+155°C→Room Temp. for 5 Cycles	±(0.75%+0.05Ω)
Resistance to Soldering Heat	JIS-C-5202 6.4	350°C±10°C for 3±0.5 Seconds	±(0.25%+0.05Ω)

* Rated Continuous Working Voltage (RCWV)=√ Power Rating x Resistance Value