

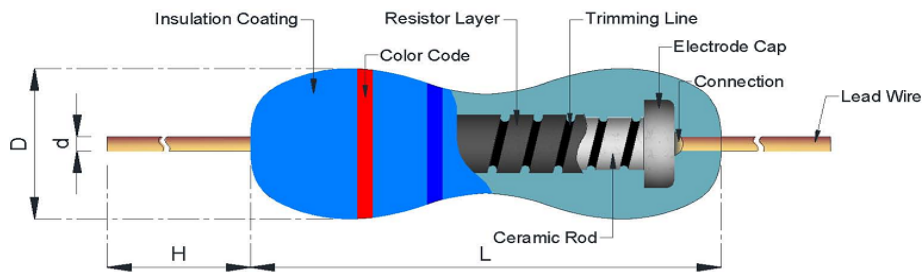
# MFU series Ultra Small Metal Film Fixed Resistors

## ◆ Features

- » Body Coating: Silicone Flame proof is Gray (FMF Type).
- » Low T.C.R. : 100ppm
- » High precision 5%, 1%

## ◆ Power Ratings Dimensions

### » Ultra Small Size



Type	DIMENSION(mm)			
	L	ØD	H	Ød
MFU50 (1/2WSS)	3.2 ± 0.5	1.6 ± 0.5	27 ± 3.0	0.45 ± 0.05
MFU100 (1WSS)	6.0 ± 0.5	2.3 ± 0.3	27 ± 3.0	0.56 ± 0.05
MFU200 (2WSS)	9.0 ± 0.5	3.2 ± 0.5	27 ± 3.0	0.65 ± 0.03

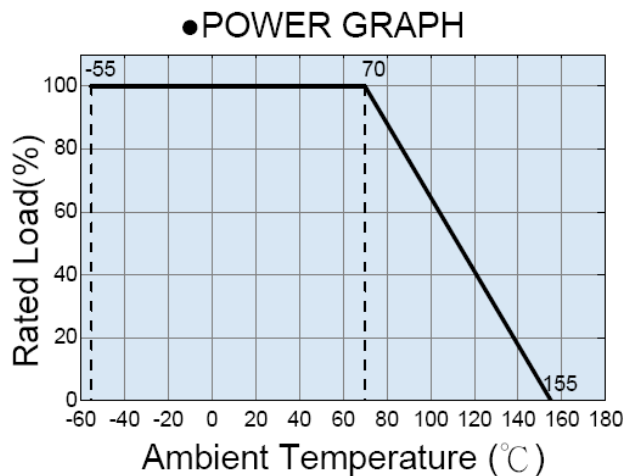
### ◆ Part Number

MF	12	F	2K3	T	
Type	Watt	Tolerance	R value	Packing	TCR Value
MFU	1/2W = 50	J = ± 5%	2.3K = 2K3	T = Taping Box	Blank = ±100ppm
	1W = 100	F = ± 1%	10KΩ = 10K	B = Bulk	D = ±50ppm
	2W = 200			R = Taping Reel	

### ◆ Electrical Characteristics

Power rating at 70°C	Resistance	Operating Temp. Range	Max. Working Voltage	Max. Overload Voltage	Dielectric withstanding voltage
	Range (Ω) 1% / 5%				
1/2WSS	10R~10M	-55°C to +155°C	200V	400V	300V
1WSS			350V	500V	400V
2WSS			450V	600V	500V

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

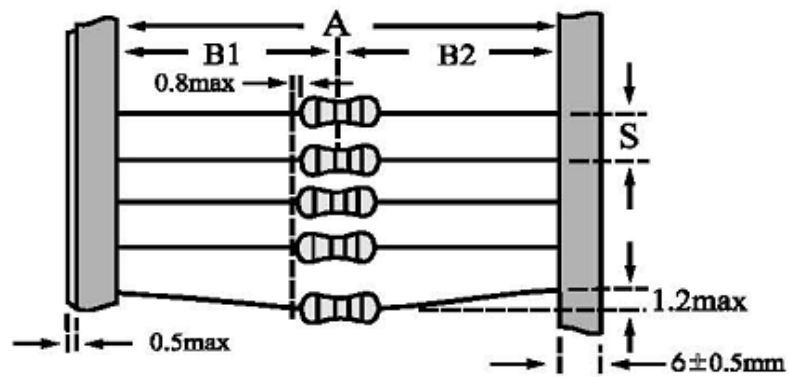


## ◆ Environmental Characteristics

Performance Test	Test Method	Appraise
SHORT TIME OVERLOAD	2.5 times RCWV for 5 seconds	≤ 1%
TEMPERATURE COEFFICIENT(T.C.R.)	Resistance value at room Temperature and room Temperature+100℃	By Type
VOLTAGE PROOF	In V-Block for 60 seconds	By Type
PULSE OVERLOAD	4 times RCWV for 10000 cycles (1sec.on · 25secs.off)	±(1 %+0.05Ω)
INSULATION RESISTANCE	In V-Block	> 10000MΩ
LOAD LIFE	70℃ at RCWV for 1000hrs.(1.5hrs. on · 0.5hrs.off)	±(2.0%+0.05Ω)
LOAD LIFE IN HUMIDITY	40±2℃ 90~95%RH at RCWV for 1000hrs. (1.5hrs. on · 0.5hrs.off)	±(2.0%+0.05Ω)
TEMPERATURE CYCLING	-40℃/85℃ with 1000 cycles. (20min for both low and high Temperature , transfer time less 30s)	±(1%+0.05Ω)
SOLDER ABILITY	235±5℃ for 2±0.5 seconds	95% min. coverage
RESISTANCE TO SOLVENT	Trichloroethane for 1 min. with ultrasonic	No deterioration of coatings and markings
TERMINAL STRENGTH	Direct load for 10 sec. In the direction off the terminal leads.	Tensile: ≥2.5kg

Rated continuous Working Voltage (RCWV) =  $\sqrt{\text{POWER. RATING} * \text{RESISTANCE. VALUE}}$

◆ **Packing Methods** Bandoleer for Axial leads



Type	Dimensions (mm)				
	A		B1-B2	S (spacing)	Max. deviation of spacing
1/2WSS	52	+1	1.2	5	1 mm per 10 spacing
		-0			
1WSS	26	+1	1	5	
		-0			
1WSS	52	+1	1.2	5	
		-0			
2WSS	26	+1	1	5	
		-0			
2WSS	52	+1	1.2	5	
		-0			