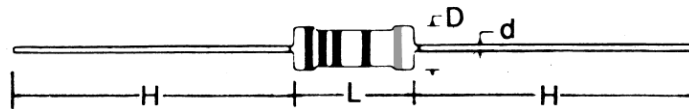


### WIRE WOUND FUSIBLE RESISTOR - HIGH SURGE IMMUNITY

#### INTRODUCTION:

The WWFHS series wire wound fusible high surge immune resistors are manufactured to perform as a regular resistor under normal conditions and as a fuse under excessive load. These fusible resistors have high surge voltage immunity.

In WWFHS series, for resistors up to 5W, the resistance value is color coded with 3 bands plus a tolerance band. An additional white band indicates that the resistor is fusible. For resistors 6W and above, the value is printed on the resistor.



### SPECIFICATIONS

Type No.	Wattage	Dimensions in mm				Range in Ohms [Ω]		Tolerance	Dielectric withstanding Voltage
		D	L	H	d				
WWFHS 1+ WWFHS 2 M	1W / 2W	3.20 ± 0.5	9 ± 0.5	26 ± 2.0	0.55 ± 0.05	10	150	5%	350 V
WWFHS 2+ WWFHS 3 M	2W / 3W	4.25 ± 0.5	11 ± 1.0	26 ± 2.0	0.65 ± 0.05	10	150	5%	500 V
WWFHS 3 WWFHS 4 M	3W / 4W	5 ± 0.5	15 ± 1.0	26 ± 2.0	0.75 ± 0.05	10	150	5%	500 V
WWFHS 5 WWFHS 6 M	5W / 6W	6 ± 0.5	18 ± 1.0	30 ± 2.0	0.75 ± 0.05	10	150	5%	500 V
WWFHS 6 WWFHS 7 M WWFHS 8 MM	6W / 7W / 8W	8 ± 1.0	25 ± 1.0	38 ± 3.0	0.80 ± 0.05	10	150	5%	500 V
WWFHS 9 WWFHS 10 M	9W / 10W	8 ± 1.0	30 ± 1.0	38 ± 3.0	0.80 ± 0.05	10	150	5%	1000 V

'M' under 'Type No.' denotes miniature size.

\*Certified to UL 1412

### FUSING CHARACTERISTICS

RESISTANCE RANGE	FUSING POWER	FUSING TIME
10 Ω to 150 Ω	Rated power x 32	< 60 seconds



## STANDARD RESISTANCE VALUES E 24 Series

10	11	12	13	15	16	18	20	22	24	27	30
33	36	39	43	47	51	56	62	68	75	82	91

Colour	1st figure	2nd figure	multiplier	Tolerance
Black	0	0	1	
Brown	1	1	10	±1%
Red	2	2	100	±2%
Orange	3	3	1,000	
Yellow	4	4	10,000	
Green	5	5	100,000	±0.5%
Blue	6	6	1,000,000	±0.25%
Violet	7	7	10,000,000	±0.1%
Gray	8	8		
White	9	9		
Gold			0.1	±5%
Silver			0.01	±10%

ELECTRICAL PERFORMANCE		
Tests	Condition	Spec.
Surge Immunity Test	5 pulses at 2 Ohms impedance in asynchronous mode	2.5KV *
Resistance Temp. Coeff.	-55 °C ~ 200 °C	± 300 ppm/°C
Short Time Overload	5 times of rated wattage for 5 sec for up to 3w 10 times of rated wattage for 5 sec. above 3w	± 2%
Rated Load	Rated voltage for 30 min.	± 0.5%
Insulation Resistance	500 V Megger	1,000 MΩ
Load Life	70°C on-off cycle 1,000hrs.	± 3%

\* Please contact us for specific surge voltage requirements.

