





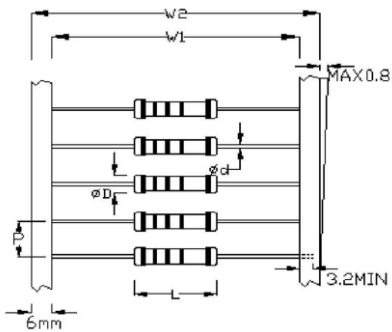
# TMRC-Carbon Film Resistor

## Electrical Characteristics:

Type	Rated Power	Max Working Voltage	Max Overload voltage	Dielectric withstanding voltage	Resistance Range	Operation Temperature	T.C.R. PPM/°C
8(1/8W)	0.125W	150V	250V	250V	1Ω~10MΩ	-55°C ~+155°C	R≤3K9: 350 4K~1M2: 1000 R>1M2: 2500
4(1/4W)	0.25W	250V	350V	250V	1Ω~10MΩ		
2(1/2W)	0.5W	350V	500V	350V	1Ω~10MΩ		
1(1W)	1W	500V	650V	350V	1Ω~10MΩ		
X(2W)	2W	500V	650V	400V	1Ω~10MΩ		
Y(3W)	3W	500V	750V	400V	1Ω~10MΩ		
Z(5W)	5W	500V	750V	500V	1Ω~10MΩ		
4S(1/4WS) small size	0.25W	150V	250V	250V	1Ω~10MΩ		
2S(1/2WS) small size	0.5W	250V	350V	250V	1Ω~10MΩ		
1S(1WS) small size	1W	350V	500V	350V	1Ω~10MΩ		
XS(2WS) small size	2W	500V	650V	400V	1Ω~10MΩ		
YS(3WS) small size	3W	500V	750V	500V	1Ω~10MΩ		
ZS(5WS) small size	5W	500V	750V	500V	1Ω~10MΩ		

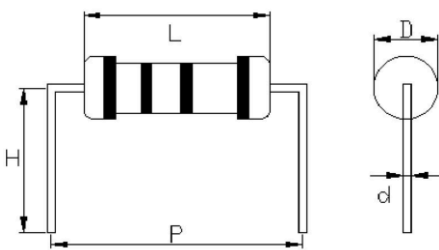
## Packing dimension:

### T Type



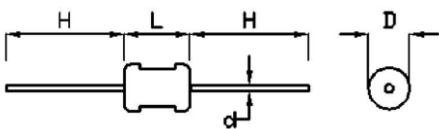
Power	Dimension(mm)					
	L±1	D±0.5	d±0.05	P±1	W1±1	W2±1
1/8W(1/4WS)	3.50	1.70	0.40	5.00	52.00	64.00
1/4W(1/2WS)	6.00	2.30	0.40	5.00	52.00	64.00
1/2W(1WS)	9.00	3.20	0.48	5.00	52.00	64.00
1W (2WS)	11.00	4.50	0.68	5.00	63.00	75.00
2W (3WS)	15.00	5.00	0.68	5.00	68.00	80.00
3W (5WS)	17.00	6.00	0.68	10.00	71.00	83.00

### M Type



Power	Dimension(mm)				
	L±1	D±0.5	d±0.05	P±1	H±1
1/8W(1/4WS)	3.50	1.70	0.40	5.00	10.00
1/4W(1/2WS)	6.00	2.30	0.40	10.00	10.00
1/2W(1WS)	9.00	3.20	0.48	12.50	10.00
1W (2WS)	11.00	4.50	0.68	15.00	10.00
2W (3WS)	15.00	5.00	0.68	20.00	10.00
3W (5WS)	17.00	6.00	0.68	25.00	10.00

### B Type

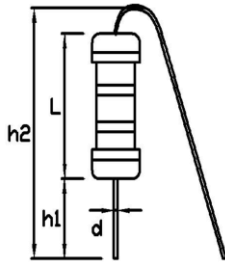


Power	Dimension(mm)			
	L±1	D±0.5	d±0.05	H±2
1/8W(1/4WS)	3.50	1.70	0.40	27.00
1/4W(1/2WS)	6.00	2.30	0.40	26.00
1/2W(1WS)	9.00	3.20	0.48	24.00
1W (2WS)	11.00	4.50	0.68	29.00
2W (3WS)	15.00	5.00	0.68	30.00
3W (5WS)	17.00	6.00	0.68	30.00



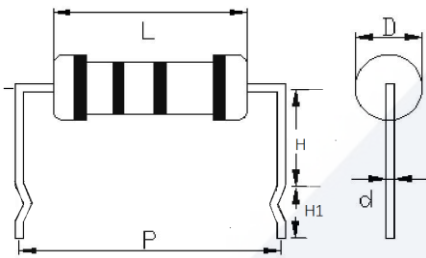
# TMRC-Carbon Film Resistor

## F Type



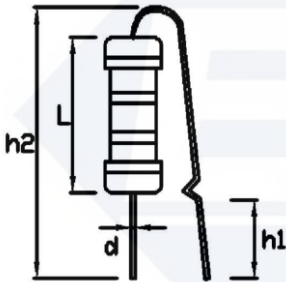
Power	Dimension(mm)			
	L±1	d±0.05	h1±0.5	h2±1
1/8W(1/4WS)	3.50	0.40	5.00	13.00
1/4W(1/2WS)	6.00	0.40	5.00	16.00
1/2W(1WS)	9.00	0.48	5.00	19.00
1W(2WS)	11.00	0.68	5.00	21.00
2W(3WS)	15.00	0.68	5.00	25.00

## MK Type



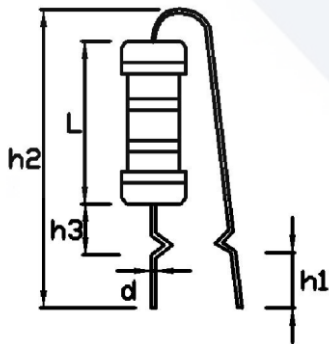
Power	Dimensions (mm)				
	D±0.5	L±1.0	P±1.0	H±1.0	H1±1.0
1/2W(1WS)	3.2	9.0	12.5	10	4.5
1W(2WS)	4.5	11.5	15	10	4.5
2W(3WS)	5	15.5	20	10	4.5
3W5WS	6	17.5	25	10	4.5

## FK Type



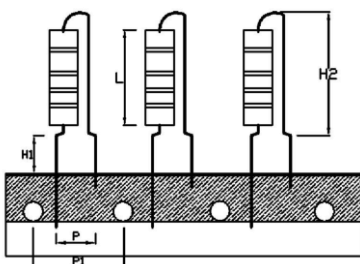
Power	Dimension(mm)			
	L±1	d±0.05	h1±0.5	h2±1
1/2W(1WS)	9.00	0.48	4.50	16.00
1W(2WS)	11.00	0.68	3.50	18.00
2W(3WS)	15.00	0.68	3.50	23.00
3W(5WS)	17.00	0.68	3.50	25.00

## FKK Type



Power	Dimensions (mm)				
	L±1	d±0.05	h1±0.5	h2±1	h3±1
1W(2WS)	11.00	0.68	3.50	22.00	4.00
2W(3WS)	15.00	0.68	3.50	26.00	4.00
3W(5WS)	17.00	0.68	3.50	28.00	4.00

## F type taping package

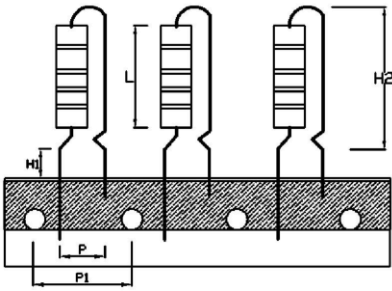


Power	Dimensions (mm)				
	L±1	H1±0.5	h2±1	P±1	P1±1
1/8W(1/4WS)	3.50	6.00	9.00	5.00	12.70
1/4W(1/2WS)	6.00	6.00	12.00	5.00	12.70
1/2W(1WS)	9.00	6.00	15.00	5.00	12.70
1W(2WS)	11.00	6.00	17.00	5.00	12.70
2W(3WS)	15.00	6.00	21.00	5.00	12.70



# TMRC-Carbon Film Resistor

FK type taping package



Power	Dimensions (mm)				
	L±1	H1±0.5	h2±1	P±1	P1±1
1/8W(1/4WS)	3.50	6.00	9.00	5.00	12.70
1/4W(1/2WS)	6.00	6.00	12.00	5.00	12.70
1/2W(1WS)	9.00	6.00	15.00	5.00	12.70
1W(2WS)	11.00	6.00	17.00	5.00	12.70
2W(3WS)	15.00	6.00	21.00	5.00	12.70

Color Code

Color	Figure	Multiplier	Tolerance
Black	0	$10^0$	
Brown	1	$10^1$	±1%
Red	2	$10^2$	±2%
Orange	3	$10^3$	
Yellow	4	$10^4$	
Green	5	$10^5$	±0.5%
Blue	6	$10^6$	
Violet	7	$10^7$	±0.1%
Gray	8	$10^8$	
White	9	$10^9$	
Gold		$10^{-1}$	±5%
Silver		$10^{-2}$	±10%



Start reading from the figures