



TMRW02-Tube style Wire-wound Power Resistor

Feature:

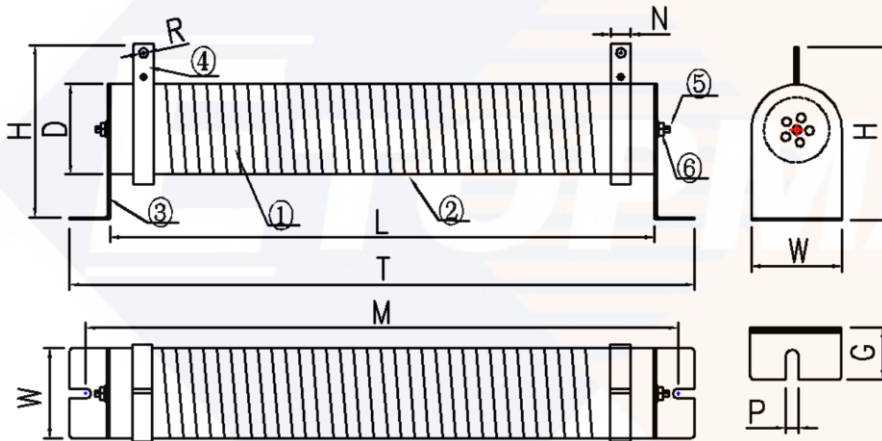
- High load, heat-sink performance
- Non-flame
- Stable performance of high voltage, pulsing load
- Lead free, RoHS compliant, IP51 protection

Application Power supply system, Meter/Instruments system, Industrial,automation system

Part Number:

TMRW02	-	1	2	3	4	5	6	7	8	
Produce Code: TMRW02: Tube style Wire-wound Power Resistor	-	Resistance Value Code: Three digits: The first two digits are significant figures and the third one denotes number of zeros. 394=390KΩ Four digits: The first three digits are Significant figures and the fourth one denotes number of zeros. 1201=1.2K Ω				Tolerance F= ±1% G= ±2% J=± 5% K=±10%	Rated Power: 10=10W,20=20W,50=50W,101=100W, ...502=5000W	Packaging: T:tape&reel B:bulk		

Dimension(mm):



Rating Power	Dimensions							
	L±3.0	W±2.0	H±3.0	M±3.0	T±3.0	P±0.5	R±0.5	N±0.5
20W	50.0	16.0	50	70.00	95.0	5.5	3.0	6.0
50W	90.0	28.0	65	120.00	145.0	6.0	4.5	8.0
100W	167.0	28.0	65	198.00	224.0	6.0	4.5	8.0
200W	267.0	28.0	65	298.00	325.0	6.0	4.5	8.0
300W	267.0	40.0	88.0	301.00	342.0	5.0	6.0	10.0
500W	300.0	50.0	98.0	318.00	347.0	8.5	6.5	10.0
1000W	300.0	70.0	135.0	328.00	360.0	8.5	6.5	14.0
1500W	360.0	70.0	135.0	388.0	420.0	8.5	6.5	14.0
2000W	430.0	70.0	135.0	458.0	490.0	8.5	6.5	14.0
3000W	430.0	80.0	146.0	455.0	490.0	8.5	8.0	14.0
5000W	540.0	100.0	156.0	583.0	620.0	8.5	8.0	14.0



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Standard electrical specifications:

Rated Power At 70°C	Resistance(Ω)	Max. Rating Voltage(U _R)	Max. Overload Voltage(U _L)	Insulation Voltage(U _N)	T.C.R. PPM/°C	Operating Temperature
P<50W	0.1~1K	350V	500V	1.5KV	±100 ±250 ±500	-55°C~+275°C
50W~500W	0.1~2K	500V	650V	2KV		
P>500W	0.1~5K	650V	1KV	3KV		

Product mechanical performance:

Test item	Test Method	Procedure	Reuirements										
Terminal strength	IEC60115-14.16	Pressurizing force:20N, 10 seconds	No broken										
Body strength	IEC60115-14.15	Central part pressurizing force:10N,10 seconds	No broken										
Vibration	IEC60115-14.22	10~55HZ/0.75mm/2H*3											
Soldering Heat	IEC60115-14.18	350±5°C, 3±0.5S	ΔR/R ≤ ±0.5%										
Solderability	IEC60115-14.17	245±5°C, 5±0.5S	≥95%										
T.C.R	IEC60115-14.8	$T.C.R. = \frac{R - R_0}{R_0} \times \frac{1}{T - T_0} \times 10^6 \text{ (PPM/°C)}$ Resistance at room temperature(T ₀); Resistance at T=T ₀ +100;	Refer to Ratings										
Short Time Overload	IEC60115-14.13	min $\sqrt{10 \times W \times R}$, 5s	ΔR/R ≤ ±2.0%										
Withstanding Voltage	IEC60115-14.7	U _N , 60S, I ≤ 1mA.	ΔR/R ≤ ±1.0%										
Insulation resistance	IEC60115-14.6	DC500V, R>100MΩ	ΔR/R ≤ ±0.5%										
Endurance	IEC60115-14.25	Min(U _P , U _R), 1.5H- ON, 0.5H-OFF, 1000H	ΔR/R ≤ ±5%										
High Temperature Expd	IEC60115-14.23	125°C, 80%, 500H	No broken										
Temperature Cycle	IEC60115-14.19	<table border="1"> <tr> <td>Temperature</td> <td>25°C</td> <td>125°C</td> <td>25°C</td> <td>-25°C</td> </tr> <tr> <td>Duration</td> <td>15min</td> <td>15min</td> <td>15min</td> <td>15min</td> </tr> </table> Cycle Time:1000Hrs.	Temperature	25°C	125°C	25°C	-25°C	Duration	15min	15min	15min	15min	No broken ΔR/R ≤ ±1.0%
Temperature	25°C	125°C	25°C	-25°C									
Duration	15min	15min	15min	15min									
Nonflammability		16*UP, 5min	No flame										