

TWM/TWW Series

Ceramic Housed Radial Terminal Power



The TWM/TWW series radial terminal power resistors offer significant board space savings over axial terminal products. Generated heat is also kept away from the circuit board. They are recommended for commercial applications requiring low cost.

FEATURES

- Economical Commercial Grade for general purpose use
- Wirewound and Metal Oxide construction
- Wide resistance range
- Flameproof inorganic construction



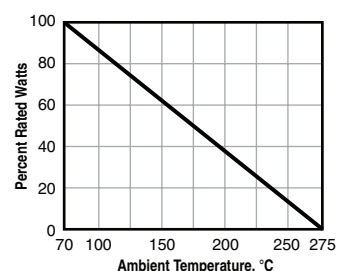
SERIES SPECIFICATIONS

Series	Wattage	Resistance	Voltage	Element
TWW3	3	0.01-39Ω	250	Wire
TWW5	5	0.01-47Ω	350	Wire
TWW10	10	0.04-990Ω	750	Wire
TWW15	15	0.1Ω-560Ω	700	Wire
TWW20	20	0.1Ω-560Ω	750	Wire
TWM3	3	43-50KΩ	250	Metal oxide
TWM5	5	51-50KΩ	350	Metal oxide
TWM10	10	1000-50KΩ	750	Metal oxide
TWM15	15	561Ω-200KΩ	700	Metal oxide
TWM20	20	561Ω-200KΩ	750	Metal oxide

CHARACTERISTICS

Housing	Ceramic
Core	Fiberglass
Filling	Cement based
Tolerance	5% standard
Temperature coefficient	0.01-20Ω ±400ppm/°C; >20-10Ω ±350ppm/°C
Dielectric withstanding voltage	1,000VAC
Short time overload	TWW: 10x rated power for 5 sec.; TWM: 5x rated power for 5 sec. 15 & 20 watt: 2.5x RCWW for 5 sec.
Operating Temperature	-55°C to 275°C
Storage Temperature	15°C-35°C, humidity: 25%-75%

Derating



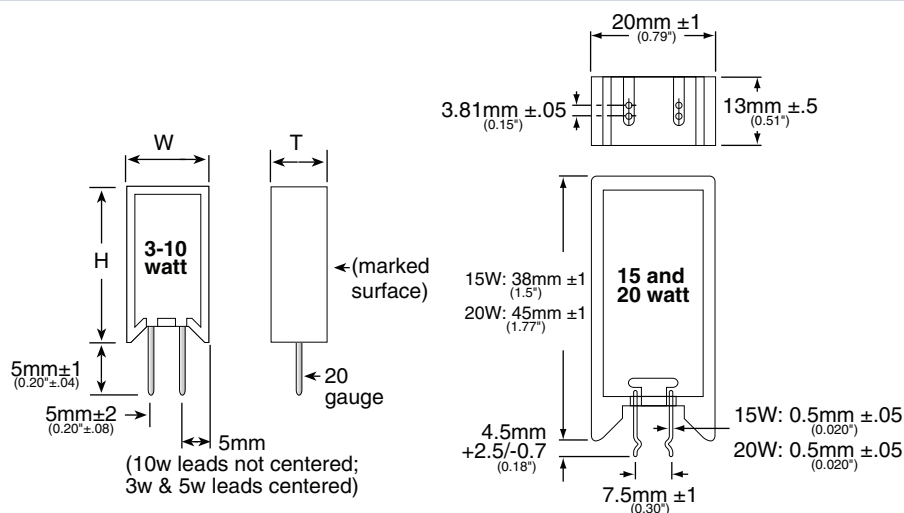
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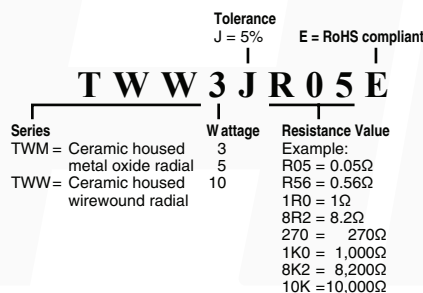
DIMENSIONS

mm/(in)

Wattage	H	T (mm/in.)±1mm	W
3	25/0.98	8.5/0.33	12.5/0.49
5	25/0.98	9/0.35	13.0/0.51
10	50/1.97	9/0.35	12.5/0.49



ORDERING INFORMATION



Standard part numbers for TWW series

Wattage							Wattage							Wattage						
Ohmic value	Part No.	3	5	10	15	20	Ohmic value	Part No.	3	5	10	15	20	Ohmic value	Part No.	3	5	10	15	20
	Suffix	TWW3J	TWW5J	TWW10J	TWW15J	TWW20J		Suffix	TWW3J	TWW5J	TWW10J	TWW15J	TWW20J		Suffix	TWW3J	TWW5J	TWW10J	TWW15J	TWW20J
0.01	R01E	✓	✓				2.0	2R0E	✓	✓	✓			47	47RE		✓	✓	✓	
0.02	R02E	✓	✓				2.7	2R7E	✓	✓	✓		✓	51	51RE					✓
0.03	R03E	✓	✓				3.0	3R0E	✓	✓	✓			56	56RE				✓	
0.04	R04E	✓	✓	✓			3.3	3R3E	✓	✓	✓			68	68RE				✓	
0.05	R05E	✓	✓	✓	✓		3.9	3R9E	✓	✓	✓			75	75RE			✓	✓	✓
0.10	R10E	✓	✓	✓	✓	✓	4.3	4R3E	✓	✓	✓			82	82RE				✓	
0.15	R15E	✓	✓	✓	✓	✓	4.7	4R7E	✓	✓	✓			100	100E				✓	✓
0.20	R20E	✓	✓	✓	✓	✓	5.6	5R6E	✓	✓	✓			150	150E				✓	✓
0.27	R27E	✓	✓	✓		✓	6.8	6R8E	✓	✓	✓			200	200E				✓	
0.30	R30E	✓	✓	✓			7.5	7R5E	✓	✓	✓		✓	270	270E			✓	✓	✓
0.33	R33E	✓	✓	✓			8.2	8R2E	✓	✓	✓			300	300E				✓	
0.39	R39E	✓	✓	✓			10	10RE	✓	✓	✓	✓	✓	330	330E				✓	
0.43	R43E	✓	✓	✓			15	15RE	✓	✓	✓	✓	✓	390	390E				✓	
0.47	R47E	✓	✓	✓	✓		20	20RE	✓	✓	✓	✓		430	430E				✓	
0.56	R56E	✓	✓	✓	✓	✓	22	22RE			✓			470	470E				✓	✓
0.68	R68E	✓	✓	✓	✓		27	27RE	✓	✓	✓	✓	✓	500	500E					✓
0.75	R75E	✓	✓	✓			30	30RE	✓	✓	✓			560	560E				✓	
0.82	R82E	✓	✓	✓			33	33RE	✓	✓	✓			680	680E				✓	
1.0	1R0E	✓	✓	✓		✓	39	39RE	✓	✓	✓			750	750E				✓	
1.5	1R5E	✓	✓	✓	✓	✓	43	43RE			✓			820	820E				✓	

Standard part numbers for TWM series

Ohmic value				Wattage		Wattage								
				3	5	Ohmic value	Part No.		3	5	10	15	20	
				Part No.		Ohmic value	Part No.		TWM3J	TWM5J	TWM10J	TWM15J	TWM20J	
				Prefix ▶	Suffix ▼		Prefix ▶	Suffix ▼						
43	—	43RE	✓			1000	—	1K0	✓					
47	—	47RE	✓			1500	—	1K5	✓	✓				
56	—	56RE	✓	✓		2000	—	2K0	✓	✓	✓			
68	—	68RE	✓	✓		2700	—	2K7	✓	✓	✓			
75	—	75RE	✓	✓		3000	—	3K0	✓	✓	✓			
82	—	82RE	✓	✓		3300	—	3K3	✓	✓	✓			
100	—	100E	✓	✓		3900	—	3K9	✓	✓	✓			
150	—	150E	✓	✓		4300	—	4K3	✓	✓	✓			
200	—	200E	✓	✓		4700	—	4K7	✓	✓	✓			✓
270	—	270E	✓	✓		5600	—	5K6	✓	✓	✓			
300	—	300E	✓	✓		5100	—	5K1				✓		
330	—	330E	✓	✓		6800	—	6K8	✓	✓	✓			
390	—	390E	✓	✓		7500	—	7K5	✓	✓	✓	✓		
430	—	430E	✓	✓		8200	—	8K2	✓	✓	✓			
470	—	470E	✓	✓		10000	—	10K	✓	✓	✓	✓	✓	
560	—	560E	✓	✓		27000	—	27K						✓
680	—	680E	✓	✓		47000	—	47K				✓		
750	—	750E	✓	✓		51000	—	51K						✓
820	—	820E	✓	✓		75000	—	75K						✓

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