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# TVW/TVM Series

**Ceramic Housed Power Resistors  
with Standoffs  
RoHS Compliant**



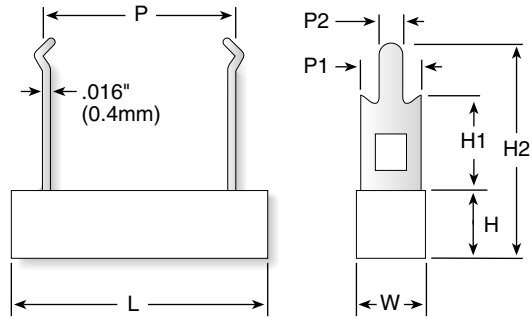
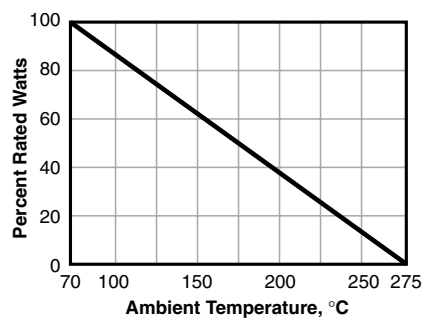
## FEATURES

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

## SPECIFICATIONS

**Material:** Ceramic  
**Housing:** Ceramic  
**Core:** Fiberglass or metal oxide  
**Filling:** Cement based  
**Electrical:**  
**Tolerance:** 5% standard  
**Temperature coeff.:**  
 0.01-20Ω ±400ppm/°C  
 22-10Ω ±350ppm/°C  
**Dielectric withstanding voltage:**  
 1,000VAC  
**Short time overload:**  
 TVW: 10x rated power for 5 sec.  
 TVM: 5x rated power for 5 sec.

## DERATING CURVE



## DIMENSIONS (in./mm)

Series	Dim. P	Dim. P1	Dim. P2	Dim. H1	Dim. H2
TVW5	0.374 / 9.5	0.197 / 5	0.051 / 1.3	0.413 / 10.5	0.984 / 25
TVW7	0.867 / 22	0.197 / 5	0.051 / 1.3	0.413 / 10.5	0.984 / 25
TVW10	1.26 / 32	0.197 / 5	0.051 / 1.3	0.413 / 10.5	0.984 / 25
TVW20	1.77 / 45	0.197 / 5	0.051 / 1.3	0.413 / 10.5	1.161 / 29.5
TVM5	0.374 / 9.5	0.197 / 5	0.051 / 1.3	0.413 / 10.5	0.984 / 25
TVM7	0.867 / 22	0.197 / 5	0.051 / 1.3	0.413 / 10.5	0.984 / 25
TVM10	1.26 / 32	0.197 / 5	0.051 / 1.3	0.413 / 10.5	0.984 / 25

Series	Wattage	Ohms	Dimensions (in. / mm)			Voltage
			Length (L) (± 1mm)	Height (H) (± 1mm)	Width (W) (± 2mm)	
TVW5	5	0.10 - 100	0.98 / 25	0.354 / 9	0.394 / 10	350
TVW7	7	0.10 - 560	1.38 / 35	0.354 / 9	0.394 / 10	500
TVW10	10	0.10 - 820	1.89 / 48	0.354 / 9	0.394 / 10	750
TVW20	20	1.0 - 1000	2.48 / 63	0.551 / 14	0.551 / 14	1000
TVM5	5	150 - 50K	0.98 / 25	0.354 / 9	0.394 / 10	350
TVM7	7	680 - 50K	1.38 / 35	0.354 / 9	0.394 / 10	500
TVM10	10	1000 - 50K	1.89 / 48	0.354 / 9	0.394 / 10	750

## STANDARD PART NUMBERS FOR STANDARD RESISTANCE VALUES

Ohms	5 Watt	7 Watt	10 Watt	20 Watt	Ohms	5 Watt	7 Watt	10 Watt	20 Watt	Ohms	5 Watt	7 Watt	10 Watt	20 Watt
0.1	TVW5JR10	TVW7JR10	TVW10JR10	—	5.6	TVW5J5R6	TVW7J5R6	TVW10J5R6	TVW20J5R6	330	TVM5J330	TVW7J330	TVW10J330	TVW20J330
0.15	—5JR15	—7JR15	—10JR15	—	6.8	—5J6R8	—7J6R8	—10J6R8	—20J6R8	390	—5J390	—7J390	—10J390	—20J390
0.2	—5JR20	—7JR20	—10JR20	—	7.5	—5J7R5	—7J7R5	—10J7R5	—20J7R5	430	—5J430	—7J430	—10J430	—20J430
0.27	—5JR27	—7JR27	—10JR27	—	8.2	—5J8R2	—7J8R2	—10J8R2	—20J8R2	470	—5J470	—7J470	—10J470	—20J470
0.3	—5JR30	—7JR30	—10JR30	—	10	—5J10R	—7J10R	—10J10R	—20J10R	560	—5J560	—7J560	—10J560	—20J560
0.33	—5JR33	—7JR33	—10JR33	—	15	—5J15R	—7J15R	—10J15R	—20J15R	680	—5J680	TVM7J680	—10J680	—20J680
0.39	—5JR39	—7JR39	—10JR39	—	20	—5J20R	—7J20R	—10J20R	—20J20R	750	—5J750	—7J750	—10J750	—20J750
0.43	—5JR43	—7JR43	—10JR43	—	27	—5J27R	—7J27R	—10J27R	—20J27R	820	—5J820	—7J820	—10J820	—20J820
0.47	—5JR47	—7JR47	—10JR47	—	30	—5J30R	—7J30R	—10J30R	—20J30R	1,000	—5J1K0	—7J1K0	TVM10J1K0	—20J1K0
0.56	—5JR56	—7JR56	—10JR56	—	33	—5J33R	—7J33R	—10J33R	—20J33R	1,500	—5J1K5	—7J1K5	—10J1K5	—
0.68	—5JR68	—7JR68	—10JR68	—	39	—5J39R	—7J39R	—10J39R	—20J39R	2,000	—5J2K0	—7J2K0	—10J2K0	—
0.75	—5JR75	—7JR75	—10JR75	—	43	—5J43R	—7J43R	—10J43R	—20J43R	2,700	—5J2K7	—7J2K7	—10J2K7	—
0.82	—5JR82	—7JR82	—10JR82	—	47	—5J47R	—7J47R	—10J47R	—20J47R	3,000	—5J3K0	—7J3K0	—10J3K0	—
1	—5J1R0	—7J1R0	—10J1R0	TVW20J1R0	56	—5J56R	—7J56R	—10J56R	—20J56R	3,300	—5J3K3	—7J3K3	—10J3K3	—
1.5	—5J1R5	—7J1R5	—10J1R5	—20J1R5	68	—5J68R	—7J68R	—10J68R	—20J68R	3,900	—5J3K9	—7J3K9	—10J3K9	—
2	—5J2R0	—7J2R0	—10J2R0	—20J2R0	75	—5J75R	—7J75R	—10J75R	—20J75R	4,300	—5J4K3	—7J4K3	—10J4K3	—
2.7	—5J2R7	—7J2R7	—10J2R7	—20J2R7	82	—5J82R	—7J82R	—10J82R	—20J82R	4,700	—5J4K7	—7J4K7	—10J4K7	—
3	—5J3R0	—7J3R0	—10J3R0	—20J3R0	100	—5J100	—7J100	—10J100	—20J100	5,600	—5J5K6	—7J5K6	—10J5K6	—
3.3	—5J3R3	—7J3R3	—10J3R3	—20J3R3	150	TVM5J150	—7J150	—10J150	—20J150	6,800	—5J6K8	—7J6K8	—10J6K8	—
3.9	—5J3R9	—7J3R9	—10J3R9	—20J3R9	200	—5J200	—7J200	—10J200	—20J200	7,500	—5J7K5	—7J7K5	—10J7K5	—
4.3	—5J4R3	—7J4R3	—10J4R3	—20J4R3	270	—5J270	—7J270	—10J270	—20J270	8,200	—5J8K2	—7J8K2	—10J8K2	—
4.7	—5J4R7	—7J4R7	—10J4R7	—20J4R7	300	—5J300	—7J300	—10J300	—20J300	10,000	—5J10K	—7J10K	—10J10K	—

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