

Wire Wound Resistor Flame Proof Withstanding Type

SRW Series

MERITEK

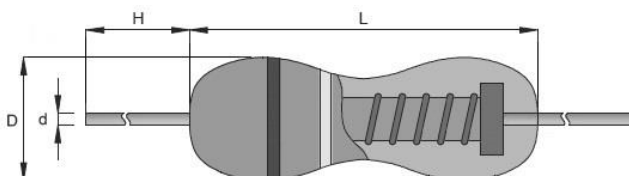
FEATURE

- Inrush and Surge Withstanding
- Small Linear Temperature Coefficient
- Surge Voltage Handling Capability up to 12KV
- Surge Withstand IEC 61000-4-5 1.2/50 μ s
- Applications: Smart Meters, Renewable Energy, Power Supplies, LED Drivers, Appliances, White Goods



ELECTRICAL CHARACTERISTICS

Power Rating, 70°C (W)		Dimension (mm)				Resistance Range (Ω)	Tolerance (%)	Dielectric Withstanding Voltage (V)	TCR (PPM/°C)
		L \pm 1.0	H \pm 3.0	D \pm 0.5	d \pm 0.03				
1/2W	1WS	9.0	26	3.2	0.65	1 Ω ~200 Ω	\pm 1, \pm 5	400	\pm 200
1W	2WS	11.5	35	4.5	0.78	1 Ω ~470 Ω	\pm 1, \pm 5	400	\pm 200
2W	3WS	15.5	32	5.0	0.78	1 Ω ~1k Ω	\pm 1, \pm 5	500	\pm 200
3W	5WS	17.5	32	6.0	0.78	1 Ω ~1k Ω	\pm 1, \pm 5	500	\pm 200
5W	7WS	24.5	38	8.0	0.78	1 Ω ~1k Ω	\pm 1, \pm 5	500	\pm 200



PART NUMBERING SYSTEM

SRW (1) 5WS (2) 10R0 (3) J (4) TA (5)

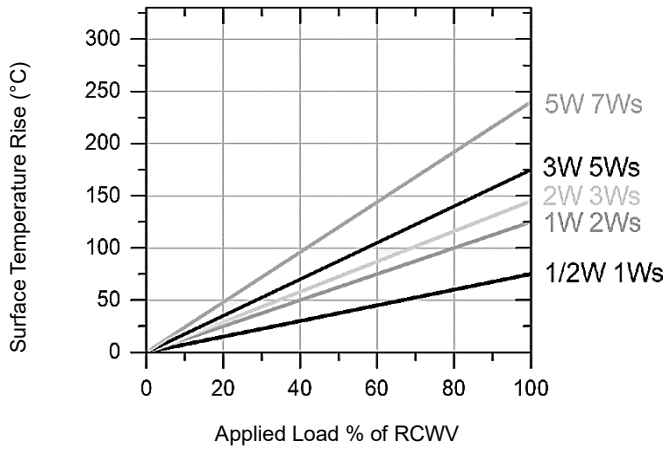
No.	Item	Code	Description	
(1)	Product Code	SRW	Wire Wound Resistor Series, Surge Withstanding Type	
(2)	Power Rating	5WS	5WS: 5W Miniature size	1W, 3W, 5W, 10W, 12W, 15W, 20W
(3)	Resistance	10R0	10R0: 10 Ω	2001: 2K Ω
(4)	Tolerance	J	J: \pm 5%	F: \pm 1%
(5)	Internal Code	TA	TA: Tape & Ammo	TR: Tape & Reel, B: Bulk

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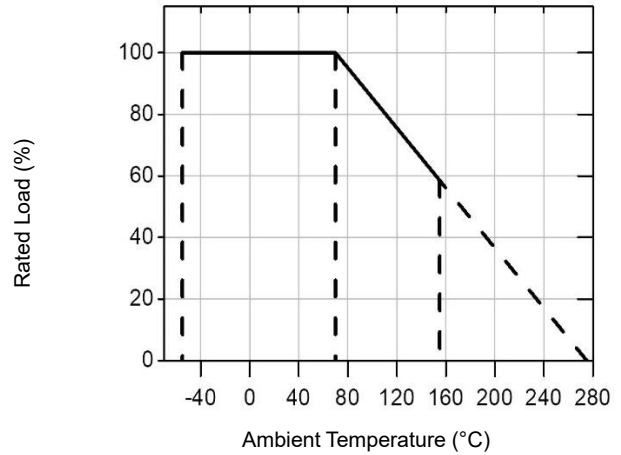


CHARACTERISTIC CURVES

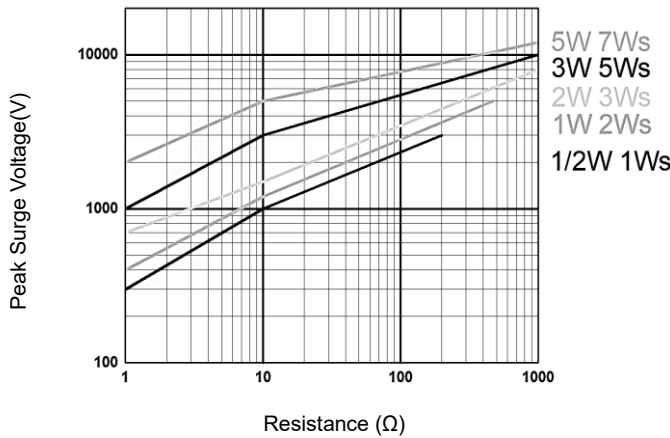
Hot-Spot Temperature



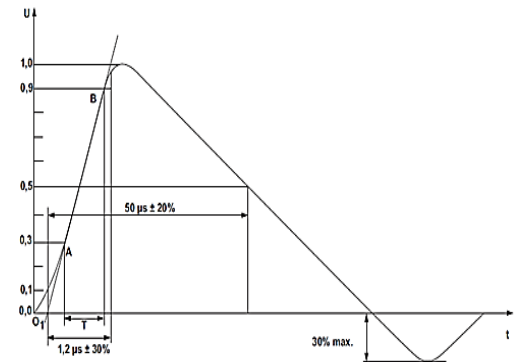
Power Derating Curve



Peak Surge Voltage -1.2/50µs Pulse



Surge Standards: IEC 61000-4-5



RELIABILITY SPECIFICATION

Test	Condition	Requirement
Operating Temperature Range	-55°C to +350°C	All type
Temperature Coefficient Resistance	Resistance value at Room Temperature and Room Temperature +100°C	By Type
Dielectric Withstanding Voltage	In V-Block for 60 seconds	By Type
Insulation Resistance	In V-Block	>100MΩ
Load Life	70°C at RCWV for 1000 hrs, (1.5 hrs. on, 0.5 hrs. off)	±(5.0%+0.05Ω)
Short Time Overload	Rated Voltage X 10 for 5 seconds	±(2.0%+0.05Ω)
Load Life in Humidity	40±2°C 90~95%RH at RCWV for 1000 hrs. (1.5 hrs. on, 0.5 hrs. off)	±(5.0%+0.05Ω)
Solderability	260±5°C for 2±0.5 seconds	95% Min Coverage
Terminal Strength	Direct load for 10 seconds in the direction of the terminal leads	Tensile: ≥2.5kg
Anti-Surge Characteristics	1.2/50µs 30 seconds between pulses 10 times	±(5.0% + 0.05Ω)

- Notes:
 1. Reference Standards: IEC 60115-1
 2. Storage Temperature: 0~35°C; Humidity:25~ 65% RH,
 3. Rated Continuous Working Voltage (RCWV) = $\sqrt{\text{Power.Rating} * \text{Resistance.Value}}$

*Specifications subject to change without notice.