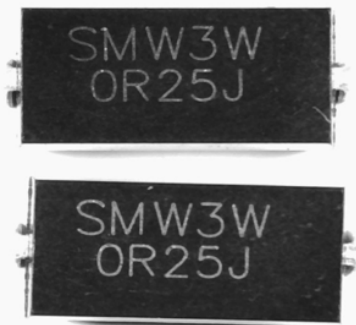




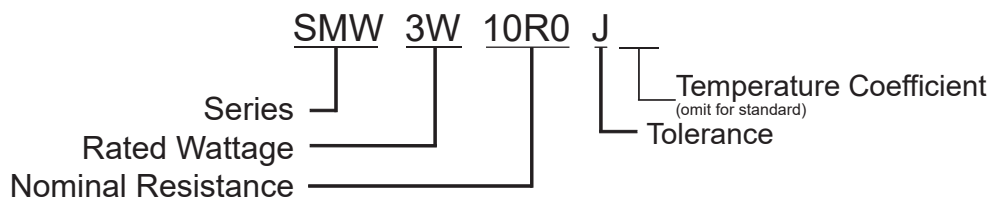
■ FEATURES

- Flameproof UL94V0 molded plastic
- Small sizes is good for high density application
- Good thermal stability and low surface temperature rise
- Suitable for processing on automatic SMD assembly systems

■ APPLICATIONS

- Telecommunications
- Medical equipment
- Measurement/Testing Equipment
- Automotive
- Industrial

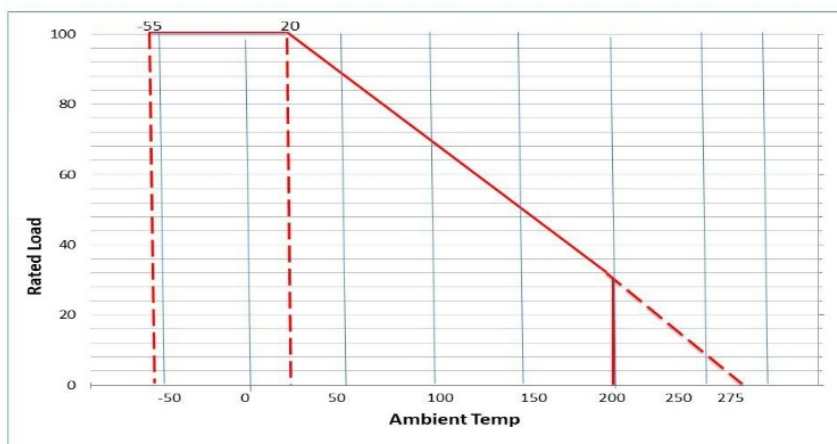
■ MAKING A PART NUMBER



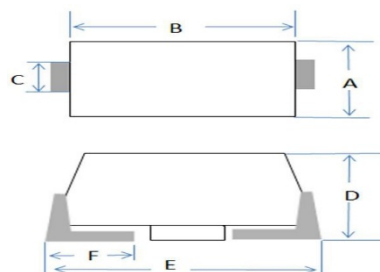
■ ELECTRICAL CHARACTERISTICS

ITEMS	Power @ 70°C	Operating Temperature Range in °C	Resistance Range ±1% • ±2% • ±5%
SMW1W	1W	-55 ~ 175	0.1Ω~50Ω
SMW2W	2W	-55 ~ 175	0.1Ω~100Ω
SMW2.5W	2.5W	-55 ~ 175	0.1Ω~100Ω
SMW3W	3W	-55 ~ 175	0.1Ω~300Ω
SMW5W	5W	-55 ~ 175	0.1Ω~300Ω

■ DERATING CURVE



■ DIMENSIONS



■ ELECTRICAL CHARACTERISTICS

Item	Requirement	Test Method
Temperature Coefficient	300 PPM/°C	-55°C~+125°C, 25°C is the reference temperature
Short Time Overload	$\leq(\pm 1\% + 0.05 \Omega)$	5 times the rated wattage for 5 seconds
Power Rating Load	$\leq(\pm 1\% + 0.05 \Omega)$ Surface temp. 275 Max.	RCWV for 30 minutes
Damp Heat with Load	$\leq(\pm 2.0\% + 0.05 \Omega)$	40±2°C, 90~95% R.H. RCWV for 500 hrs. (with 1.5 hrs ON and 0.5 hrs OFF)
Endurance	$\leq(\pm 2.0\% + 0.05 \Omega)$	70±2°C RCWV for 1,000 hrs. (with 1.5 hrs ON and 0.5 hrs OFF)
Bending Strength	$\leq(\pm 0.5\% + 0.05 \Omega)$	Bending once for 5 seconds with 2mm.
Solderability	≥ 95% min. coverage	245±5°C for 3 seconds
Resistance to Heat	No evidence of damage $\leq(\pm 1\% + 0.05 \Omega)$	260±5°C for 10 seconds
Temperature Cycle	$\leq(\pm 2\% + 0.05 \Omega)$	-55°C(30 min.) > room temp. (3 sec) > +175°C(30 min.) > room temp. (3 min.) / (5 cycles)
Voltage Proof	No breakdown or flashover	AC 500V for 1 minute.
Insulation Resistance	>1,000Ω	DC 500V Meg. Meter.

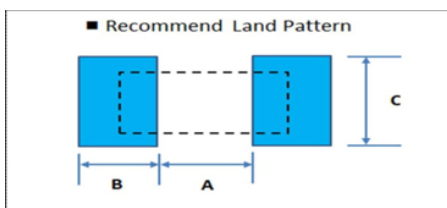
Rated continuous Working Voltage (RCWV) = $\sqrt{\text{POWER.RATING.} \times \text{RESISTANCE VALUE}}$

Overload Voltage = $\sqrt{(5 \times P \times R)}$ or Max. Overload Voltage listed above, whichever is lower

Storage Temperature = 25±3 °C; Humidity < 80% RH

Reference Standards: IEC 60115-1 ; JIS-C 5201-1

■ RECOMMENDED LAND PATTERN



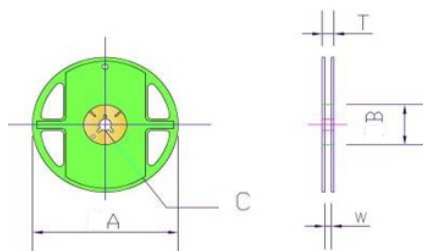
■ IR REFLOW SOLDERING

Type	A(mm)	B(mm)	C(mm)
SMW1W	2.0	3.0	2.0
SMW2W	3.69	2.43	2.84
SMW2W	3.69	2.43	2.84
SMW2.5W	5.84	3.93	5.84
SMW3W	5.9	4.00	5.84
SMW5W	10.0	6.00	5.84

Time of IR reflow soldering at a maximum temperature point of 260°C: 10 seconds

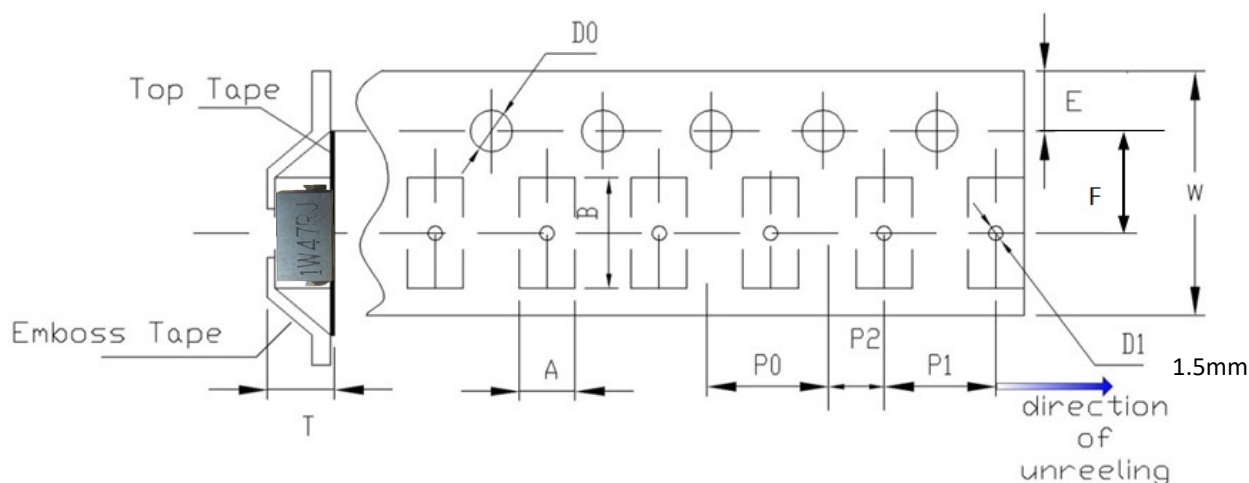
Time of soldering iron at maximum temperature point of 410°C : 5 seconds

■ PACKAGING



Type	A	B	C	W	T	Quantity
SMW1W	178.5±1.5	60.0±1.0	13.0±0.5	13.0±0.5	15.5±0.5	2,500
SMW2W	330±1.5	100.0±1.0	13.0±0.5	17.0±0.5	19.5±0.5	2,500
SMW2.5W	330±1.5	100.0±1.0	13.0±0.5	17.0±0.5	19.0±0.5	2,000
SMW3W	330±1.5	100.0±1.0	13.0±0.5	17.0±0.5	19.0±0.5	1,000
SMW5W	330±1.5	100.0±1.0	13.0±0.5	17.0±0.5	19.0±0.5	800

■ EMBOSSED PLASTIC TAPE SPECIFICATIONS



Type	A	B	W	E	F	P0	P1	P2	D0	T
1W	2.80±0.10	5.30±0.10	12.0±0.10	1.75±0.10	5.50±0.05	4.00±0.10	4.00±0.10	2.00±0.10	1.55±0.10	2.36±0.10
2W	4.20±0.10	7.90±0.10	16.0±0.10	1.75±0.10	7.50±0.05	4.00±0.10	8.00±0.10	2.00±0.05	1.55±0.10	3.25±0.10
2.5W	4.60±0.10	11.6±0.10	24.0±0.30	1.75±0.10	7.50±0.10	4.00±0.10	8.00±0.10	2.00±0.05	1.50±0.10	3.80±0.10
3W	6.00±0.10	14.0±0.10	24.0±0.30	1.75±0.10	7.50±0.10	4.00±0.1	8.0±0.100	2.00±0.05	1.50±0.10	5.15±0.10
5W	7.00±0.10	16.1±0.10	24.0±0.30	1.75±0.10	11.50±0.10	4.00±0.1	12.0±0.10	2.00±0.05	1.5±0.05	6.6±0.10