

■ **INTRODUCTION**

- Excellent heat dissipation,
- Small linear temperature Coefficient
- Instant overload capability
- Flameproof construction in accordance with UL-1412

■ **FEATURES**

- Operating Temperature: -55°C to +350°C
- Power Range: 0.5W ~ 7W
- Resistance Range: 0.01Ω~ 560Ω
- UL94V-0 Flameproof coating
- 10x rated power test

■ **POWER RATING AND DIMENSIONS (mm)**

Code	Rated Wattage (W)	Dielectric Voltage (V)	Dimensions (mm)				Resistance Range (Ω)	TCR (ppm/°C)
			L	D	H±2	d±0.05		
SKN50 SKN1WS	½	300	9.0 ± 0.5	3.2 ± 0.5	26	0.65	0.01 ~ 0.099	±500 ~ 1800
	1						0.1 ~ 20	±50
							22 ~ 150	±300
SKN1W SKN2WS	1	300	11.5 ± 1.0	4.5 ± 0.5	35	0.78	0.01 ~ 0.099	±500 ~ 1800
	2						0.1 ~ 20	±50
							20 ~ 470	±300
SKN2W SKN3WS	2	400	15.5 ± 1.0	5.0 ± 0.5	32	0.78	0.01 ~ 0.099	±500 ~ 1800
	3						0.1 ~ 20	±50
							20 ~ 470	±300
SKN3W SKN5WS	3	400	17.5 ± 1.0	6.0 ± 0.5	32	0.78	0.01 ~ 0.099	±500 ~ 1800
	5						0.1 ~ 20	±50
							22 ~ 470	±300
SKN5W SKN7WS	5	400	24.5 ± 1.0	8.0 ± 0/5	38	0.78	0.01 ~ 0.099	±500 ~ 1800
	7						0.1 ~ 20	±50
							22 ~ 560	±300

1. Resistance Range for standard resistance, below or over this resistance range on request.
2. Above resistance range is based on ±5% tolerance. Other tolerance is available on request.

ELECTRICAL CHARACTERISTICS (T_a=25°C Unless otherwise specified)

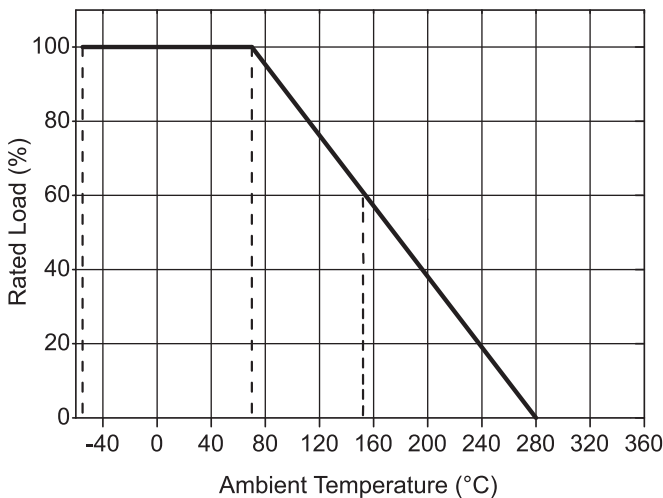
ITEMS	Test Method	Specification
Short Time Overload	Rated Voltage x 10 for 5 seconds.	$\Delta R \leq \pm(2.0\% + 0.05\Omega)$
Load Life	70°C at RCWV (1.5hrs ON, 0.5hrs OFF) for 1000 hours	$\Delta R \leq \pm(5\% + 0.05\Omega)$
Insulation Resistance	JIS-C5202 5.6 ln V-Block >10,000MΩ	
Load Life in Humidity	40 ± 2°C, 90% ~ 95% RH, 1000hrs, 1.5 hours ON, 0.5 hour OFF	$\Delta R \leq \pm(5\% + 0.05\Omega)$
Solderability	260°C ± 5°C for 2 ± 0.5 seconds	95% min. coverage
Terminal Strength	Direct load for 10 second in the direction off the terminal leads	Tensile : ≥ 2.5Kg

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

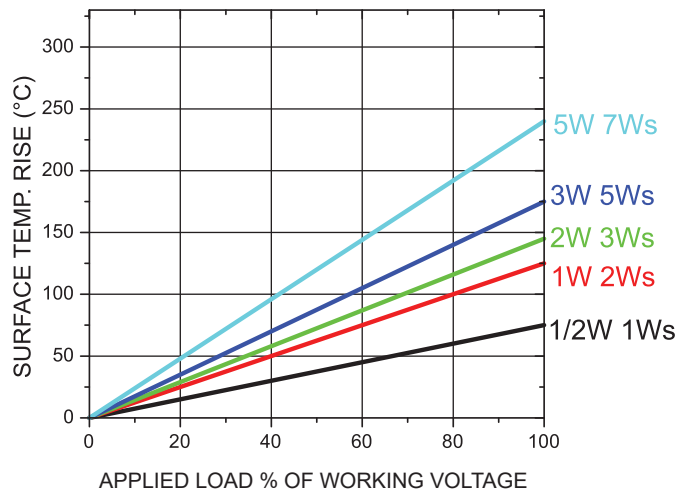
Rated continuous Working Voltage (RCWV) = $\sqrt{POWER.RATING.* RESISTANCE.VALUE}$

CHARACTERISTICS (TYPICAL)

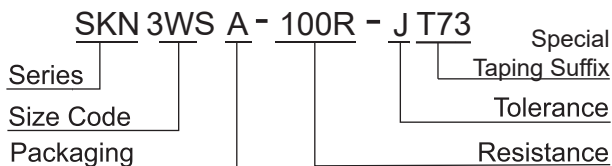
DERATING CURVE



HOT-SPOT TEMPERATURE



PART NUMBER EXAMPLE



TOLERANCE

±%	5	2	1
Code	J	G	F

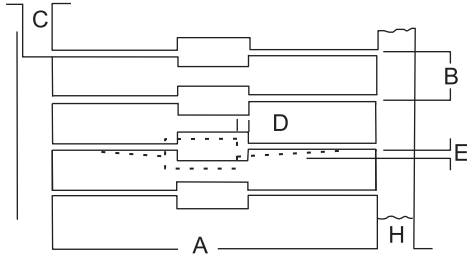
RESISTANCE

Ohms	0.5	1.5	10	100	560
Code	0R50	1R50	10R0	100R	560R

PACKAGING

Packaging Code	R	A	B	C
Description	Tape & Reel	Taped Box	Loose (Bulk)	Cut & Form
Special Taping Suffix	T52, T73			

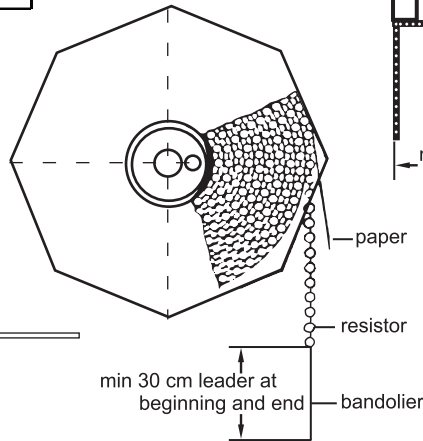
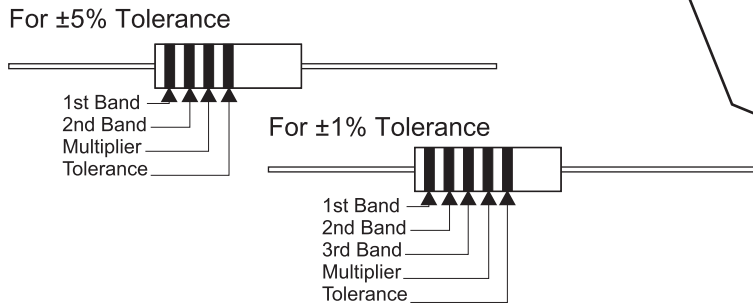
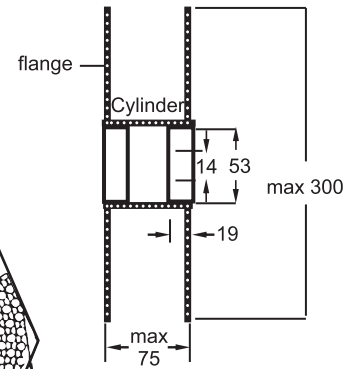
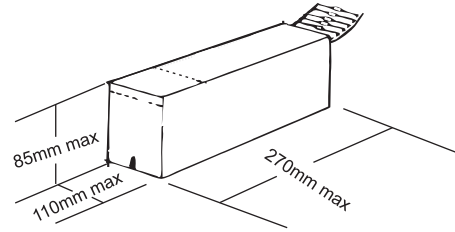
■ TAPE, REEL, & AMMO SPECIFICATIONS



Body Diameter	Size Code	A	B	C	D	E	H
< 5mm	T-52	52 ± 1	5 ± 0.5	4.0 min.	0.8 max.	1.2 max.	6 ± 1
> 5mm	T-52	52 ± 1	10 ± 0.5	4.0 min.	0.8 max.	1.2 max.	6 ± 1
	T-73	73 ± 1					

■ COLOR CODE CHART

Color	1st Band	2nd Band	3rd Band (B ~ F Tol)	Multiplier	Tolerance	Tolerance Code
Black	0	0	0	10 ⁰		
Brown	1	1	1	10 ¹	±1%	F
Red	2	2	2	10 ²	±2%	G
Orange	3	3	3	10 ³		
Yellow	4	4	4	10 ⁴		
Green	5	5	5	10 ⁵	±0.5%	D
Blue	6	6	6	10 ⁶	±0.25%	C
Violet	7	7	7	10 ⁷	±0.10%	B
Gray	8	8	8	10 ⁸	±0.05%	A
White	9	9	9	10 ⁹		
Gold				10 ⁻¹	±5%	J
Silver				10 ⁻²	±10%	K



■ RESISTANCE DECADE TABLE

Resistance Tolerance	Resistance Values																							
M (20%)	1.0	1.5	2.2	3.3	4.7	6.8																		
K (10%)	1.0	1.2	1.5	1.8	2.2	2.7	3.3	3.9	4.7	5.6	6.8	8.2												
G (2%), J (5%)	1.0	1.1	1.2	1.3	1.5	1.6	1.8	2.0	2.2	2.4	2.7	3.0	3.3	3.6	3.9	4.3	4.7	5.1	5.6	6.2	6.8	7.5	8.2	9.1
F (1%)	1.00	1.10	1.21	1.33	1.47	1.62	1.78	1.96	2.15	2.37	2.61	2.87	3.16	3.48	3.83	4.22	4.64	5.11	5.62	6.19	6.81	7.50	8.25	9.09
	1.02	1.13	1.24	1.37	1.50	1.65	1.82	2.00	2.21	2.43	2.67	2.94	3.24	3.57	3.92	4.32	4.75	5.23	5.76	6.34	6.98	7.68	8.45	9.31
	1.05	1.15	1.27	1.40	1.54	1.69	1.87	2.05	2.26	2.49	2.74	3.01	3.32	3.65	4.02	4.42	4.87	5.36	5.90	6.49	7.15	7.87	8.66	9.53
	1.07	1.18	1.30	1.43	1.58	1.74	1.91	2.10	2.32	2.55	2.80	3.09	3.40	3.74	4.12	4.53	4.99	5.49	6.04	6.65	7.32	8.06	8.87	9.76