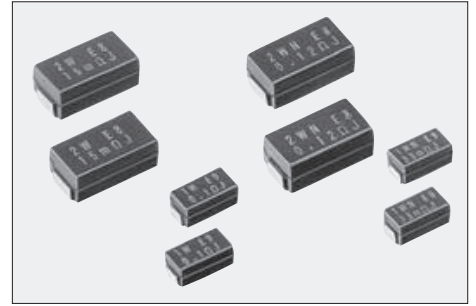


WIRE-WOUND CHIP RESISTORS **SW/SWN**

Features:

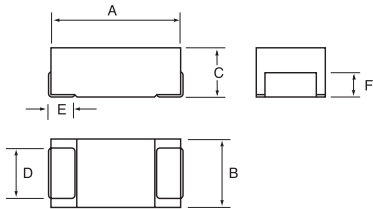
Heatproof epoxy molding (flame resisting V-O) wirewound resistor.
 Strongly resistant to moisture, solvent and insulation.
 Available Non-Inductive type SWN Series improved frequency characteristic.
 For current sensing application (shunt),
 We'd recommend SMV, SMR (Low thermal EMF)



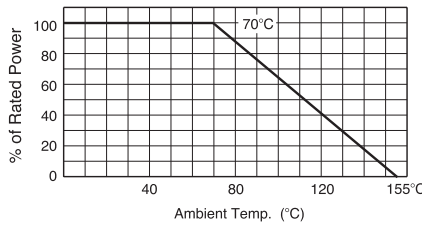
The real is marked with laser.(picture: ink print)

Type	Wattage Rating (W)	Resistance Range (Ω)	MAX. Over Load (V)	Resistance Tolerance (%)	Temp. Coefficient (0°C ~ 20°C ~ 120°C)	Operating Temp.	Solder Reflow
SW-1	1	0.01~1K	100	± 1(F) R ≥ 1Ω	R < 0.05Ω ± 500ppm/°C	-55°C ~ +155°C	240°C ~ 250°C 10~15sec Preheat 150°C ~ 170°C 60~120sec
SWN 1		0.01~10	50	± 5(J) R ≥ 47mΩ	R < 0.1Ω ± 150ppm/°C		
SW-2	2	0.01~2K	200	± 10(K)	R < 1Ω ± 90ppm/°C		
SWN 2		0.01~130	100	± 20(M)	R < 30Ω ± 50ppm/°C R ≥ 30Ω ± 30ppm/°C		

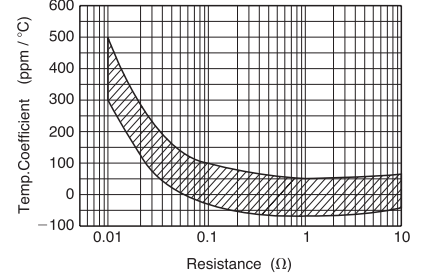
Dimensions (mm)



Ambient Temp. Derating Curve



Temp. Coefficient (Low Resistance Values)

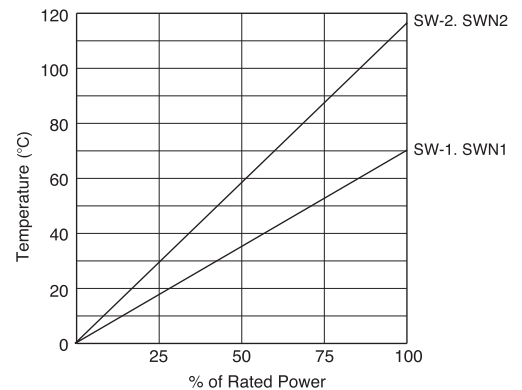


Type	Dimensions (mm)						Weight (g)
	A	B	C	D	E	F	
SW-1,SWN1	7.4	3.8	3.3	2.5	1.5	2.0	0.3
SW-2,SWN2	11.6	6.2	4.6	4.6	2.0	2.2	0.8

Performance

Parameters	Test Condition	Specification (R < 0.1Ω)	Specification (R ≥ 0.1Ω)
Temp. Cycling	-55°C 30min, 25°C 2~3min, 155°C 30min 25°C 2~3min, 5 cycles	±(0.5%+100μΩ)	±(0.5%+0.05Ω)
Short Time Over Load	Rated Power × 5 5sec	±(0.5%+100μΩ)	±(0.5%+0.05Ω)
Moisture Load Life	40°C, 90~95%RH, Rated Power 1.5Hr ON, 0.5Hr OFF 1000Hr	±(2.0%+100μΩ)	±(2.0%+0.05Ω)
Dielectric Strength	AC 500V 1min	±(0.2%+100μΩ)	±(0.2%+0.05Ω)
Insulation Resistance	DC 100V	1000MΩ MIN	1000MΩ MIN
Resistance to Soldering Heat	260°C 5sec	±(0.5%+100μΩ)	±(0.5%+0.05Ω)
Solderability	235 °C 2sec	>95% Coverage	>95% Coverage
Resistance to Solvent	IPA 60sec	No Damage	No Damage
Load Life	70°C, Rated Power 1.5Hr ON, 0.5Hr OFF 1000Hr	±(2.0%+100μΩ)	±(2.0%+0.05Ω)
Terminal Strength	Substrate Bending Test Substrate (100×40×1.6t) bent 2mm, 5sec.	±(0.5%+100μΩ)	±(0.5%+0.05Ω)

Surface Temp. Versus Power Load



How to order

SW-1 0.47Ω J
 Type Resistance Tolerance

- Standard Resistance E-24 Series J (±5%)
- Taping Standard Quantity SW-1, SWN1, 2200pcs
 SW-2, SWN2, 1200pcs

Please refer to individual Taping specification sheet, AQS-0460.



PCN Corporation

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