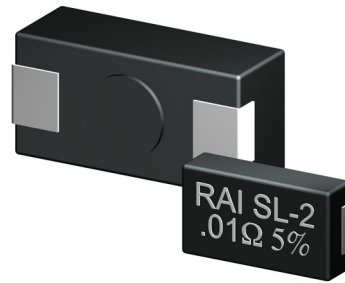


**FEATURES**

- Resistances from 0.005 Ohm to 50 kOhms
- Power rating to 4 Watt
- Resistance tolerances to  $\pm 0.01\%$
- TCR to  $\pm 20$  ppm/K
- Load stability to 0.5%
- Customized resistance values



**RoHS\***  
COMPLIANT

**TABLE 1 – SPECIFICATIONS**

Tolerances	S: $\pm 0.01\%$ to $\pm 5\%$ SL: $\pm 0.1\%$ to $\pm 5\%$
Temperature Coefficient	S: $>10\Omega$ : $\pm 20$ ppm/K S: $1\Omega$ to $10\Omega$ : $\pm 50$ ppm/K S: $<1\Omega$ : Call Factory SL: $\pm 120$ ppm/K
Temperature Range	$-55^{\circ}\text{C}$ to $+275^{\circ}\text{C}$
Dielectric Strength	S: 1000 VAC SL: 500 VAC
Insulation Resistance	$>1000$ MOhms / Dry
Reel / Tape Width (mm)	S-1: 12 / S-2: 16 / S-4: 24 / S-5: 32 / SL-2: 16 / SL-4: 24
Environmental Performance (MIL-STD 202)	$\Delta R$
Dielectric	$\pm 0.5\% + 0.05\Omega$
Load Life	$\pm 1\% + 0.05\Omega$
Storage	$\pm 0.5\% + 0.05\Omega$
Moisture Resistance	$\pm 1\% + 0.05\Omega$
Thermal Shock	$\pm 0.5\% + 0.05\Omega$
5X Overload ( 5s )	$\pm 0.5\% + 0.05\Omega$
Shock	$\pm 0.5\% + 0.05\Omega$

Type	Power Rating Watts @ 70°C	Resistance <sup>1</sup> Range ( $\Omega$ )	Maximum Working Voltage
S-1	0.5	0.01 to 400	14
S-2	1	0.005 to 3k	54
S-4	2	0.01 to 15k	173
S-3	3	0.01 to 25k	273
S-5	4	0.01 to 50k	447
SL-2	1	0.005 to 0.05	0.22
SL-4	2	0.005 to 0.07	0.37

for non-inductive windings: divide max resistance by 2

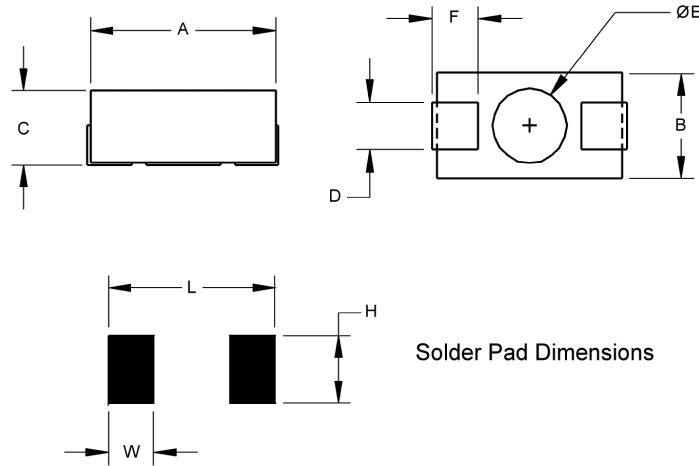
**ORDERING INFORMATION**

**Part Number - Resistance - Tolerance - TCR ( If not standard )**

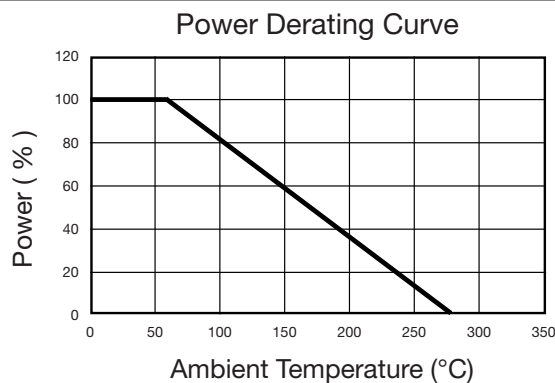
S-4 100 Ohm 1%  
For Non-Inductive Windings / insert the letter "N" ( i.e. SN-4 )

**FIGURE 1 – DIMENSIONS**

Type	Dimensions						Stand-Off		Footprint		
	A ±0.015" [±0.4mm]	B ±0.015" [±0.4mm]	C ±0.015" [±0.4mm]	D ±0.015" [±0.4mm]	F ±0.015" [±0.4mm]	Lead Thickness ±0.002" [±0.05mm]	E ±0.015" [±0.4mm]	Height ±0.005" [±0.13mm]	W ±0.015" [±0.4mm]	H ±0.015" [±0.4mm]	L ±0.015" [±0.4mm]
S-1	0.190 [4.8]	0.130 [3.3]	0.110 [2.8]	0.060 [1.5]	0.040 [1.0]	0.006 [0.15]	0.100 [2.5]	0.005 [0.13]	0.062 [1.6]	0.100 [2.5]	0.250 [6.4]
S-2	0.260 [6.6]	0.155 [3.9]	0.125 [3.2]	0.070 [1.8]	0.070 [1.8]	0.006 [0.15]	0.120 [3.0]	0.005 [0.13]	0.096 [2.4]	0.112 [2.8]	0.337 [8.6]
S-4	0.450 [11.4]	0.250 [6.4]	0.180 [4.6]	0.120 [3.0]	0.100 [2.5]	0.006 [0.15]	0.190 [4.8]	0.005 [0.13]	0.155 [3.9]	0.230 [5.8]	0.540 [13.7]
S-3	0.625 [15.9]	0.270 [6.9]	0.250 [6.4]	0.120 [3.0]	0.135 [3.4]	0.006 [0.15]	0.150 [3.8]	0.005 [0.13]	0.200 [5.1]	0.150 [3.8]	0.700 [17.8]
S-5	0.820 [20.8]	0.295 [7.5]	0.300 [7.6]	0.150 [3.8]	0.190 [4.8]	0.006 [0.15]	0.245 [6.2]	0.005 [0.13]	0.220 [5.6]	0.250 [6.4]	0.900 [22.9]
SL-2	0.260 [6.6]	0.155 [3.9]	0.100 [2.5]	0.070 [1.8]	0.070 [1.8]	0.006 [0.15]	0.120 [3.0]	0.005 [0.13]	0.096 [2.4]	0.112 [2.8]	0.337 [8.6]
SL-4	0.450 [11.4]	0.250 [6.4]	0.100 [2.5]	0.120 [3.0]	0.100 [2.5]	0.006 [0.15]	0.190 [4.8]	0.005 [0.13]	0.155 [3.9]	0.230 [5.8]	0.540 [13.7]



**FIGURE 2 – DERATING**





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