

The SL Series uses a metal strip resistance element with very low inductance and thermal emf offering very low resistances from R005 to R07. The S Series uses a welded, wirewound element for higher resistance applications to 50K.



- High Power 0.5 to 4 watts
- Available in non inductive winding (Type SN)
- Low temperature coefficient
- Superior surge handling capability
- RoHS Compliant

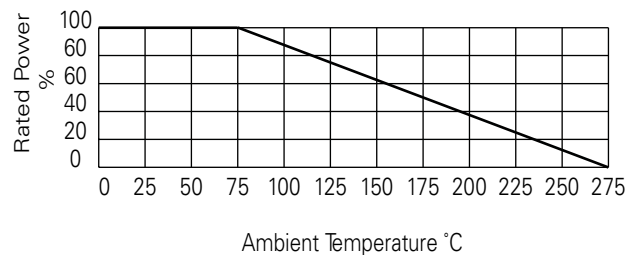
Characteristics

Tolerance:	Also available 1% (F), 5% (J) Up to 1R ±0.5% (D), from 1R to 10R to ±0.2% (C), 10R and above ±0.1% (B)
Temperature Coefficient:	Type S: 1R to 10R, ±50ppm/°C, <1R ±90ppm/°C, >10R ±20ppm/°C. Type SL: ±120ppm/°C
Dielectric Strength:	Type S: 1000VAC. Type SL: 500VAC
Operating Temperature:	-55°C to 275°C
Insulation Resistance:	1000 Megohms minimum, dry
Non Inductive Winding:	Divide maximum resistance by two, multiply working voltage by 0.707
Environmental Specifications (MIL-STD 202):	Load Life at Rated Wattage: 1%, Moisture Resistance: 1%, Temperature Cycle (-55°C to 275°C): 0.5%, Short Term Overload (5x rated power for 5 sec.): 0.5%, Low Temperature Storage: 0.5%, Solder Heat: 0.25%, Shock: 0.5%, Vibration: 0.5%

Electrical Specifications

Type	Wattage	Resistance Range	Reel / Tape Width
S05	0.5	R01 - 400R	12
S1	1	R005 - 3K	16
S2	2	R01 - 15K	24
S3	3	R01 - 25K	32
S4	4	R01 - 50K	32
SL -1	1	R005 - R05	16
SL - 2	2	R005 - R07	24

Derating Curve



ARCOL UK Limited,
Threemilestone Ind. Estate,
Truro, Cornwall, TR4 9LG, UK.
T +44 (0) 1872 277431
F +44 (0) 1872 222002
E sales@arcolresistors.com

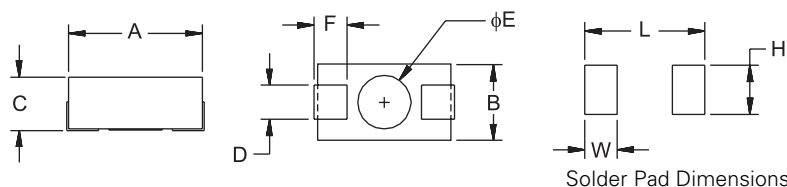
www.arcolresistors.com

The information contained herein does not form part of a contract and is subject to change without notice. Arcol operate a policy of continual product development, therefore, specifications may change.

It is the responsibility of the customer to ensure that the component selected from our range is suitable for the intended application. If in doubt please ask Arcol.

Dimensions ± 0.4 UOS (mm)

Type	A	B	C	D	Lead Thickness ± 0.05	V Max	E $\pm 0.4 \times \pm 0.13$	F	W	H	L
S05	4.8	3.3	2.8	1.5	0.152	33	2.54 x 0.127	1.01	1.57	2.54	6.35
S1	6.6	3.9	3.2	1.8	0.152	58	3.04 x 0.127	1.77	2.43	2.84	8.55
S2	11.4	6.4	4.6	3.04	0.152	127	4.82 x 0.127	2.54	3.93	5.84	13.7
S3	15.9	6.8	6.3	3.04	0.152	150	3.81 x 0.127	3.42	5.08	3.81	17.78
S4	20.8	7.5	7.1	3.8	0.152	212	6.22 x 0.127	4.82	5.58	6.35	22.86
SL - 1	6.6	3.9	2.5	1.8	0.152	0.31	3.04 x 0.127	1.77	2.43	2.84	8.55
SL - 2	11.4	6.3	2.5	3.04	0.152	0.45	4.82 x 0.127	2.54	3.93	5.84	13.71



Ordering Procedure

Standard Resistor. To specify: Type, Ohmic Value, Tolerance Code

e.g.: S4 10K B

Non Inductive Resistor. To specify add N

e.g.: SN-2 1K B

ARCOL UK Limited,
Threemilestone Ind. Estate,
Truro, Cornwall, TR4 9LG, UK.
T +44 (0) 1872 277431
F +44 (0) 1872 222002
E sales@arcolresistors.com

www.arcolresistors.com

The information contained herein does not form part of a contract and is subject to change without notice. Arcol operate a policy of continual product development, therefore, specifications may change.

It is the responsibility of the customer to ensure that the component selected from our range is suitable for the intended application. If in doubt please ask Arcol.