

## SMD Wire Wound Chip Resistors S-1, S-2, S-3, S-4, S-5



### Features and Applications

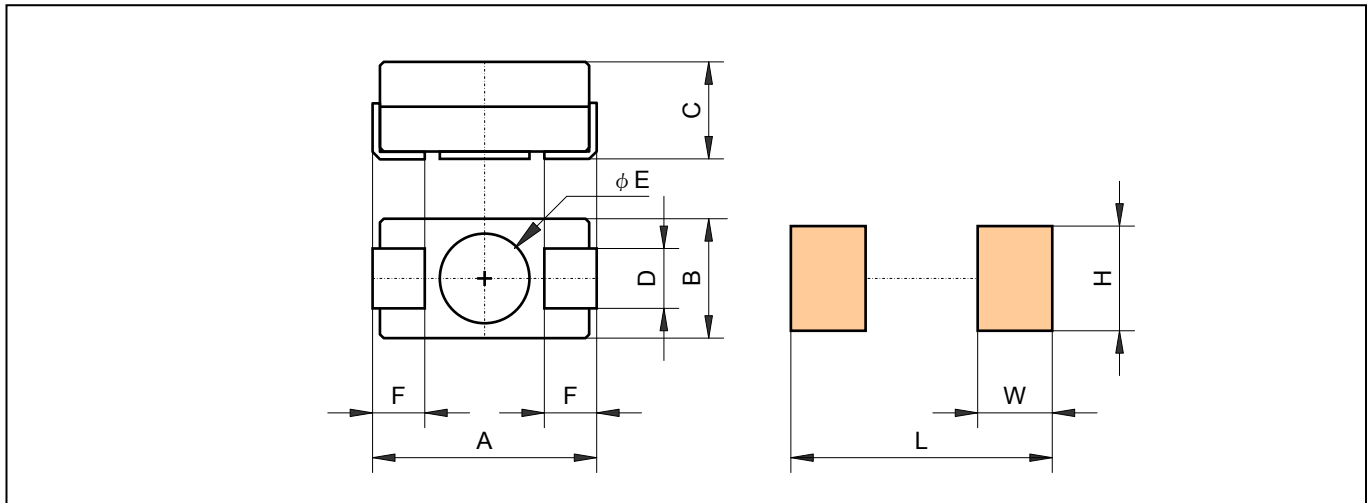
Molding SMD precision wire wound chip resistor. Wide resistance range of 0.01 to 50kohm..

Tolerance, to +/-0.01%, high temperature rating up to 275 deg C.

Low temperature coefficient to +/-20ppm/K, Superior surge handling capability, Non-inductive winding are available.

DC-DC conversion modules, DC-AC conversion, servo-motor control electronics, intelligent power modules and power supplies.

### Dimensions



Type	Dimensions						Stand-off		Foot print		
	A +/-0.4mm	B +/-0.4mm	C +/-0.4mm	D +/-0.4mm	F +/-0.4mm	Lead thickness +/-0.05mm	E +/-0.4mm	Height +/-0.15mm	W +/-0.4mm	H +/-0.4mm	L +/-0.4mm
S-1	4.8	3.3	2.8	1.5	1.0	0.15	2.5	0.13	1.6	2.5	6.4
S-2	6.6	3.9	3.2	1.8	1.8	0.15	3.0	0.13	2.4	2.8	8.6
S-4	11.4	6.4	4.6	3.0	2.5	0.16	4.8	0.13	3.9	6.8	13.7
S-3	15.9	6.9	6.4	3.0	3.4	0.15	3.8	0.13	5.1	3.8	17.8
S-5	20.8	7.5	7.7	3.8	4.8	0.15	6.2	0.13	5.6	6.4	22.9

### Ordering Information

S-4	---	100 Ohms	F	Z01	Note
S-1	TCR	Any value in	+/-0.01 (T)	Z01	Tape reel small quantity
S-2	If not standard	Resistance range	+/-0.05 (A)		
S-4			+/-0.1 (B)		
S-3			+/-1.0 (F)		
S-5			+/-5.0 (J)		

## SMD Wire Wound Chip Resistors

## S-1, S-2, S-3, S-4, S-5

## Specifications

Type	Power rating Watts @ 70°C	Resistance Range (Ω)	Maximum Working Voltage
S-1	0.5	0.01 - 400	$\sqrt{P \times R}$ (V)
S-2	1.0	0.005 – 3k	$\sqrt{P \times R}$ (V)
S-4	2.0	0.01 – 15k	$\sqrt{P \times R}$ (V)
S-3	3.0	0.01 – 25k	$\sqrt{P \times R}$ (V)
S-5	4.0	0.01 – 50k	$\sqrt{P \times R}$ (V)

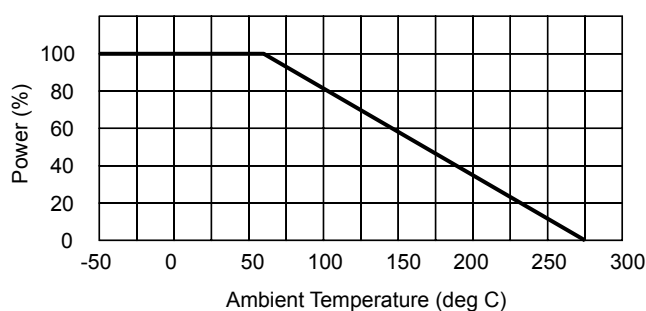
## Specifications

Specifications	Value	Conditions
Tolerances	+/-0.01% - +/-5.0%	---
Temperature Coefficient	>10ohms +/-20ppm/K, 1ohm-10ohm 50ppm/K	---
Temperature Range	-55 deg C - +275 deg C	---
Dielectric Strength	1000VAC	---
Insulation Resistance	> 1Gohms	---
Reel Tape Width (mm)	S1,12mm, S-2,16mm, S-3, 24mm, S-4,24mm, S-5,32mm	---

## Environmental Performance

Specifications	Value (∠Max.)	Conditions
Dielectric	+/-0.5%	MIL-STD-202
Load Life	+/-1.0%	MIL-STD-202
Strage	+/-0.5%	MIL-STD-202
Moisture resistance	+/-1.0%	MIL-STD-202
Thermal Shock	+/-0.5%	MIL-STD-202
5 times 5 seconds Overload	+/-0.5%	MIL-STD-202

## Power Derating



## Packaging

	Standard Package Quantities				
	S-1	S-2	S-4	S-3	S-5
Small Reel	650	600	250	125	180
Large Reel	3000	2000	1000	500	500

## Note:

Surface mount wire wound resistors have a Moisture Sensitivity Level (MSL) rating of 2 (1 year floor life).

Surface mount parts are packaged in a Moisture Barrier Bag (MBB) with a Humidity Indicator Card and desiccant to monitor and protect the parts from humidity. The MBB is marked with a Moisture Sensitive Identification Label.