

## SR Series (Silicon Power)

### FEATURES

SR: Inductive Winding
SRN: Non-inductive Winding
Single Layer Spaced Winding
Complete Welded Construction
Core: 60% Alumina
Caps: Stainless Steel
Resistance Wire: Copper-Nickel or Nickel-Chrome Alloy
Designed and manufactured to meet or exceed MIL R-26 specifications

### INTRODUCTION

The SR and SRN resistors have two different power ratings depending on the max operating temperature and stability requirements.

#### CHARACTERISTIC U:

275°C max hot spot temperature and .5% max > R after 2000 hrs. load life.

#### CHARACTERISTIC V:

350°C max hot spot temperature and 3% max > R after 2000 hrs. load life.

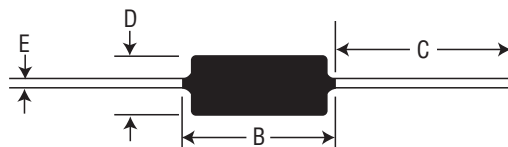
### ELECTRICAL SPECIFICATIONS

Standard Tolerances	5%, 3%, 1%, 0.5%, 0.25%, 0.1%
Dielectric Strength	500V Styles 04 through 11 1000 V Styles 25 through 100
Temperature Coefficients	±90 PPM below 1 OHM ±50 PPM 1 OHM through 9.9 OHM ±20 PPM beyond 10 OHM

\* Values beyond standard range: consult factory.

LEAD TYPE	C min		AWG	E	
	INCH	mm		INCH	mm
AM	1.500	38	22	.02	.50
CM	1.500	38	20	.032	.8
DM	1.500	38	18	.040	1.0

### DIMENSIONS



JARO Type	WATTAGE		EQUIV MIL TYPE	OHMIC RANGE		D max*		B max*		STD. LEAD TYPE
	U	V				INCH	MM	INCH	MM	
SR-04	.4	-	-	.1	3.3K	.125	3.2	.265	6.7	AM
SR-07	.75	-	-	.1	5K	.125	3.2	.327	8.3	AM
SR-10	1	-	RW70	.1	7.6K	.125	3.2	.500	12.7	AM
SR-11	1.1	-	-	.1	13K	.125	3.2	.625	15.9	AM
SR-25	2.5	3.25	RW69	.1	20K	.220	5.6	.594	15.1	CM
SR-30	3	3.75	RW79	.1	24K	.220	5.6	.640	16.3	CM
SR-31	3.1	-	-	.1	22K	.250	6.4	.593	15.1	DM
SR-32	3.25	4.75	-	.1	42K	.220	5.6	.890	22.6	CM
SR-40	4	5.5	-	.1	36K	.282	7.2	.749	19.0	DM
SR-50	5	6.5	RW74	.1	80K	.344	8.7	1.000	25.4	DM
SR-55	5.5	6.5	RW67	.1	103K	.344	8.7	1.062	27.0	DM
SR-70	7	9	-	.1	130K	.344	8.7	1.281	32.5	DM
SR-100	10	13	RW78	.1	230K	.407	10.3	1.843	46.8	DM

\* Special sizes available

## SR Series

### MATERIALS SPECIFICATIONS

CORE: 60% Alumina

CAPS: Stainless Steel

LEADS: Tinned Copperclad

RESISTANCE WIRE:

300 ohm/Circ. Mil. ft. for low values

600 ohm/Circ. Mil ft. for high values

COATING: High temperature silicon compound

INK: Epoxy

### ELECTRICAL SPECIFICATIONS

Standard Tolerances: 5%, 3%, 1%, 0.5%, 0.25%, 0.1%

Dielectric Strength: 500 Volts AC styles SR-04-07-10-11 1000 Volts AC from styles SR-25 to SR-100

Insulation: 1000M ohm minimum

Low Thermal E.M.F.

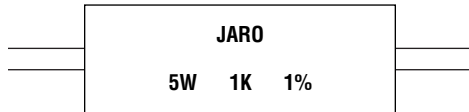
Very Low Thermal Noise

Designed and manufactured to meet or exceed MIL R-26 specifications

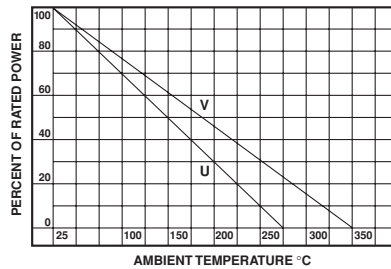
### STANDARD MARKING INCLUDES:

Value	Tolerance	Wattage
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(Special marking available on request.)



### DERATING VS. AMBIENT TEMPERATURE



Ambient Temperature (°C)