

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.

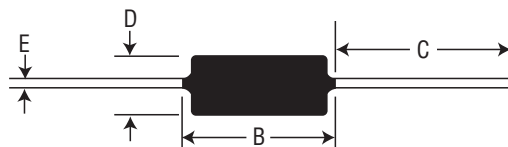
ELECTRICAL SPECIFICATIONS

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.

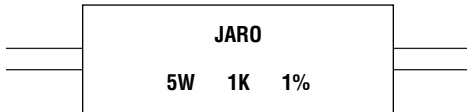
Very Low Thermal Noise

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

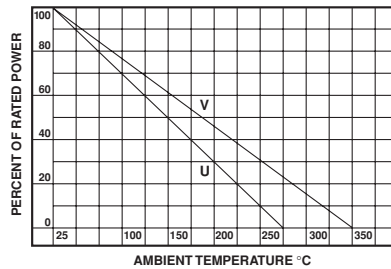
STANDARD MARKING INCLUDES:

Value	Tolerance	Wattage
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(Special marking available on request.)



DERATING VS. AMBIENT TEMPERATURE



Ambient Temperature (°C)