

SRI / SRP



**KIYOSH SILICON
COATED WIRE
WOUND
RESISTOR WITH
RADIAL TAGS
OR WIRE**

Features:

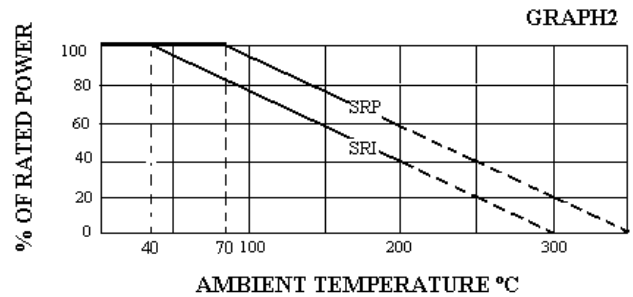
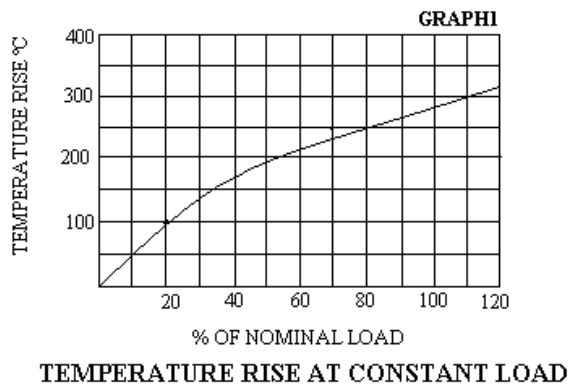
- Spot Welded Joints For Reliability
- Low Temperature Coefficient
- Exceptional Stability And Performance
- Low Surface Temperature
- Industrial And Professional Grade Available
- Non-Inductive Type Available
- Fixed Taps And Adjustable Tags Available
- Custom Designed Resistor Assemblies Are Available On Request
- Brackets Available For Horizontal As Well As Vertical Mounting.
- Flame Proof Silicon Coating Available on demand.
- Professional Grade Available As Per JSS 50402 & IS 8909 (PART III)-1978

SPECIFICATIONS:

- **OHMIC RANGE** : 0.1Ω To 300KΩ (Std. Resistances from E-24 Series. Other Resistances available on request).
- **TOLERANCE** : Standard-5%. (1%, 2% Available On Request)
- **POWER RATINGS (BASED ON 40° C)** : 5W To 1000W
 - Low Value : ±50ppm 0.1Ω to 9.1Ω
 - Middle Value : ±50ppm 10 Ω to 910 Ω
 - High Value : ±150ppm 1K Ω and above
- **TEMPERATURE COEFFICIENT** : Other ppm available on request
- **SURFACE TEMPERATURE** : 300° C max at 40° C
- **DERATE AT ZERO** : At 300° C for SRI series and at 350° C for SRP series
- **OVERLOAD** : 10 times the wattage applied for 5 seconds
- **OPERATING TEMPERATURE** : -55° C to 200° C
- **DIELECTRIC VOLTAGE** : Based on indicated creepage distance (k in table) from terminals to mounting bracket. 5mm: 1000V; 6mm: 1200V

MATERIALS USED

- **CORE** : Ceramic Core
- **TERMINALS** : Brass Terminals (SS Terminals And Brass Screw Nut Terminal On Request)
- **WIRE** : Cu-Ni Or Ni-Cr Alloy
- **COATING** : Silicon Varnish

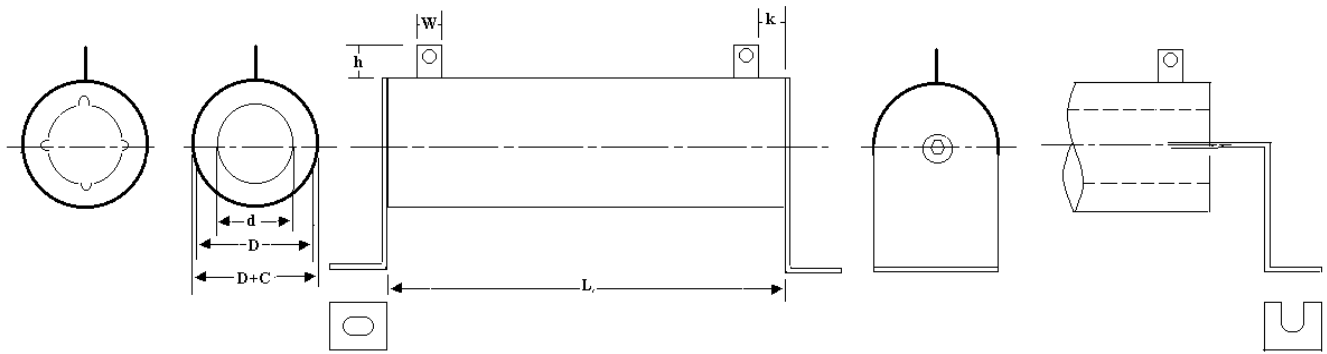


MARKINGS EXAMPLE

BRAND----- **KIYOSH 0428** -----DATE CODE
 OHMIC VALUE -- **100E ±5 % 100W** -----WATTAGE
 \-----TOLERANCE
 TYPE ----- **SRI-100 NI**-----NON INDUCTIVE
 CODE NO -----**50667**

DERATING

- **For Efficient And Long Life Operation, These Resistors Should Be Derated By More Than 50%.**
- **Operating Temperature Range -55 to +200°C.**
- **Derating Necessary For High Ambient Temperatures As Shown In Graph2**



ELECTRICAL SPECIFICATIONS

DIMENSIONS in mm

INDUSTRIAL GRADE SERIES

WATTS AT 40°C	TYPE DESIGNATION	RESISTANCE RANGE	L ± 3	D ± 1	d min	D+C max	W ± 1	h ± 3	k min
5	SRI 5	0.1Ω - 30K	30	8	4	10	4	8	2
10	SRI 10	0.1 Ω - 62K	40	12	7	15	5	10	2
12	SRI 12	0.1Ω - 68K	50	12	7	15	5	10	5
15	SRI 15	0.1Ω - 75K	63	12	7	15	5	10	5
20	SRI 20	0.1Ω - 100K	63	16	8	19	6	15	6
25	SRI 25	0.1Ω - 120K	75	16	8	19	6	15	6
30	SRI 30	0.1Ω - 150K	100	16	8	19	6	15	6
40	SRI 40	0.1Ω - 200K	100	19	12	22	6	15	6
50	SRI 50	0.1Ω - 250K	125	19	12	22	6	15	6
75	SRI 75	0.1Ω - 300K	165	19	12	22	6	15	6
100	SRI 100	1Ω - 300K	150	30	19	33	8	20	8
120	SRI 120	1Ω - 300K	165	30	19	33	8	20	8
150	SRI 150	1Ω - 300K	200	30	19	33	8	20	8
200	SRI 200	1Ω - 300K	250	30	19	33	8	20	8
250	SRI 250	1Ω - 300K	300	30	19	33	8	20	8
300	SRI 300	1Ω - 300K	300	37	19	40	10	25	10
400	SRI 400	1Ω - 300K	300	45	32	50	10	25	10
500	SRI 500	1Ω - 300K	355	50	35	54	10	25	10
800	SRI 800	1Ω - 300K	555	50	35	54	10	25	10
1000	SRI 1000	1Ω - 300K	555	60	40	64	14	25	14

PROFESSIONAL GRADE SERIES (as per JSS 50402 and IS 8909 (PART III)-1978)

WATTS AT 70°C	TYPE DESIGNATION	RESISTANCE RANGE	L ± 3	D ± 1	d min	D+C max	W ± 1	h ± 3	k min
10	SRP 10	0.1Ω - 30K	27	12	7	15	5	10	2
15	SRP 15	0.1Ω - 62K	40	12	7	15	5	10	2
25	SRP 25	0.1Ω - 100K	78	12	7	15	5	10	5
50	SRP 50	0.1Ω - 300K	102	25	14	29	8	15	8
100	SRP 100	1Ω - 300K	150	28	19	33	8	20	8
140	SRP 140	1Ω - 300K	200	30	19	33	8	20	8
180	SRP 180	1Ω - 300K	250	30	19	33	8	20	8

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