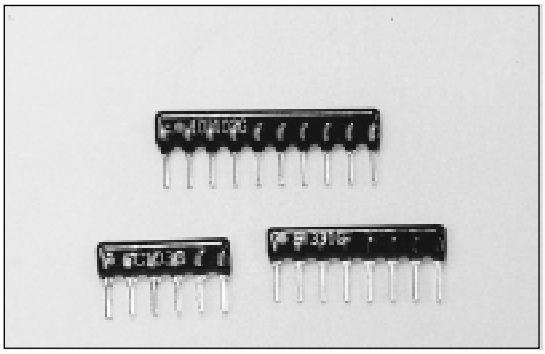
LEADED

SINGLE-IN-LINE "SIP" RESISTOR NETWORKS CONFORMAL COATED, LOW PROFILE



FEATURES

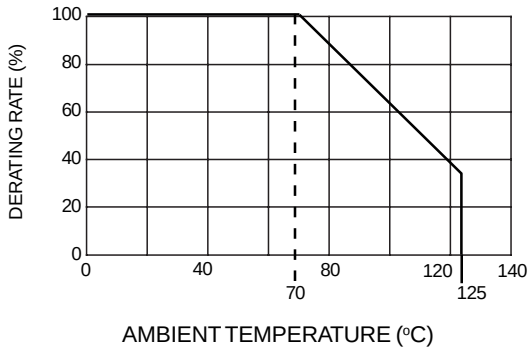
- CERMET THICK FILM CONSTRUCTION
- LOW PROFILE 5mm (.200" BODY HEIGHT)
- WIDE RANGE OF RESISTANCE VALUES
- HIGH RELIABILITY AT ECONOMICAL PRICING
- 4 PINS TO 13 PINS AVAILABLE
- 6 CIRCUIT TYPES

CHARACTERISTICS

Item	Specifications	
Rated Power per Resistor at 70°C	Common/Bussed: Isolated: 125mW Series:	Ladder: Voltage Divider: 75mW Terminator:
Operating Temperature Range	-55 ~ +125°C	
Resistance Range	10Ω ~ 3.3MegΩ (E24 Values)	
Resistance Temperature Coefficient	±100 ppm/°C (10Ω~2MegΩ) ±200 ppm/°C (Values> 2MegΩ)	
TC Tracking	±50 ppm/°C	
Max. Working Voltage	100 V or Rated Power x Resistance, whichever is less	
Short Time Overload	±1%: JIS C-5202 5 5, 2.5 times max. working voltage for 5 seconds	
Load Life	±3%: JIS C-5202 7.10, 1000 hrs. at 70°C with rated power applied, 1.5 hrs. on and 0.5 hr. off	
Mositure Load Life	±3%: JIS C-5202 7.9, 500 hrs. at 40°C and 90 ~ 95% RH with rated power applied, 1.5 hrs. on and 0.5 hr. off	
Temperature Cycle	±1%: JIS C-5202 7.4, 5 Cycles of 30 minutes at -25°C, 15 minutes at +25°C, 30 minutes at +70°C and 15 minutes at +25°C	
Soldering Heat Resistance	±1%: JIS C-5202 6.4, 260±5°C for 10±1 seconds, 3mm from the body	
Vibration	±1%: 12hrs. at max. 20Gs between 10 to 2kHz	
Insulation Resistance	10,000 mW min. at 100v	
Solderability	Per MIL-R-83401	

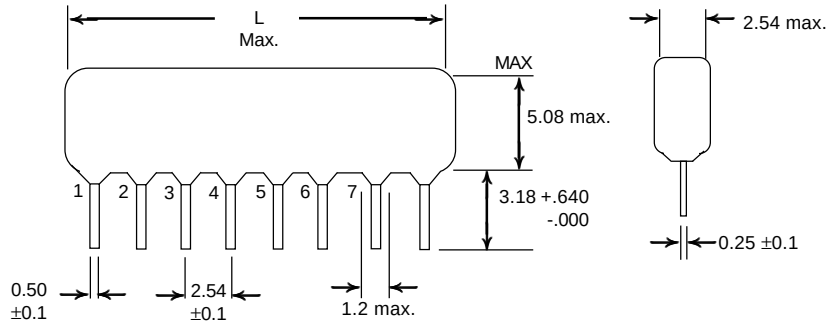
POWER DERATING CURVE:

For resistors operating in ambient temperatures above 70°C, power rating should be derated in accordance with the curve shown.



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DIMENSIONS (mm)



No. of PINS	L max
4	10.2
5	12.7
6	15.3
7	17.8
8	20.4
9	22.9
10	25.4
11	28.0
12	30.5
13	33.1

STANDARD CIRCUITS

Fig. 1: BUSSED/COMMON CIRCUIT

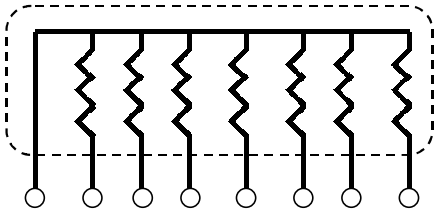


Fig. 2: ISOLATED/INDEPENDENT CIRCUIT

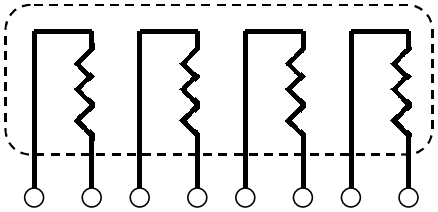


Fig. 3: SERIES CIRCUIT

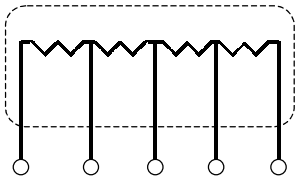


Fig. 4: LADDER CIRCUIT

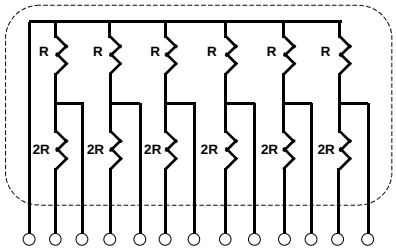


Fig. 5: VOLTAGE DIVIDER CIRCUIT

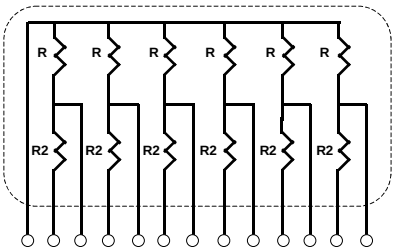
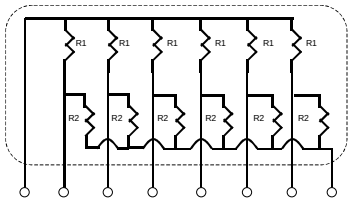


Fig. 6: TERMINATION CIRCUIT



PART NUMBERING SYSTEM

NRN 10 C 104 G XX

- XX — T.C. Option
- G — Tolerance Code: G = ±2%, J = ±5%
- 104 — Resistance in ohms first 2 digits are significant, third is no. of zeros, "R" indicates decimal under 10 ohms
- C — Circuit Type: C = Bussed/Common, I = Isolated, S = Series, V = Voltage Divider, Terminator Code = See chart, Ladder Code = See chart
- 10 — No. of PINS
- NRN — Series

Part Marking Includes:
1.) Number of PINS.
2.) Circuit Type: "1" or "C" = Common/Bussed
"2" or "I" = Isolated
3.) Resistance Value (in ohms).
4.) Resistance Tolerance: "G" = ±2%
"J" = ±5%

Ladder Code	R/2R
LA	10K/20K
LB	25K/50K
LC	50K/100K
LD	100K/200K
LS	Special

Terminator Code	R1/R2
TA	160/240
TB	180/390
TC	220/270
TD	220/330
TE	330/390
TF	330/470
TG	330/680
TH	1.5K/3.3K
TI	3.0K/6.2K
TS	Special

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