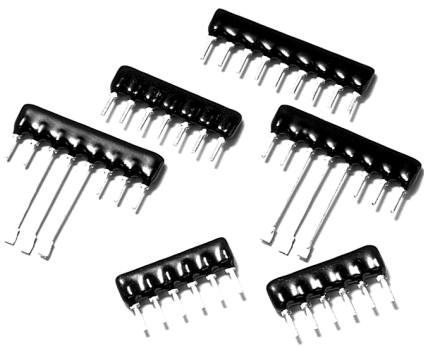


Sip Resistors Network

RNL/RNM/RNH Series



FEATURES

Available in 4 to 14 pin Packages for Design Flexibility

Low Profile is Compatible with DIPs

High Temperature Solder Ensures Compatibility with all Popular Board Soldering Techniques, Including Vapor Phase

High Purity Alumina Substrate for Superior Heat Dissipation

Unique Lead Attachment for Product Reliability and Strength

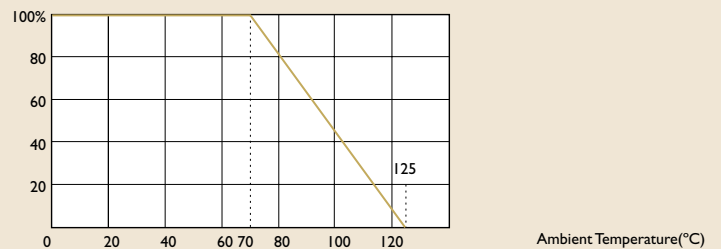
Gold and Black Epoxy Provides Excellent Marking Contrast

Laser Marking for Permanent Identification

Zero Ohm Jumper is Available

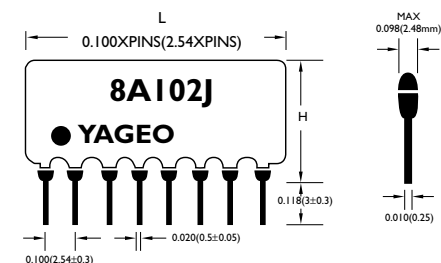
DERATING CURVE

Rated Load



DIMENSIONS

Unit : mm



NO. of PINS	4	5	6	7	8	9	10	11	12	13	14	RNL	RNM	RNH
L	10.2	12.7	15.3	17.8	20.4	22.9	25.4	28.0	30.5	33.1	35.6			
H(MAX)												5.08	6.50	8.90

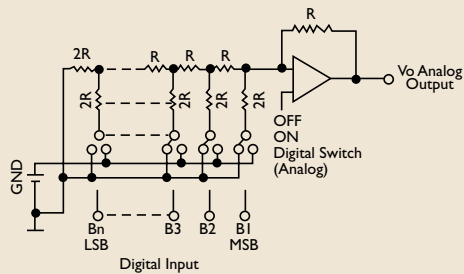
RNL Series

[For R/2R]

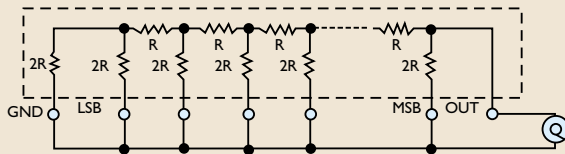
Sip Resistors Network

APPLICATIONS

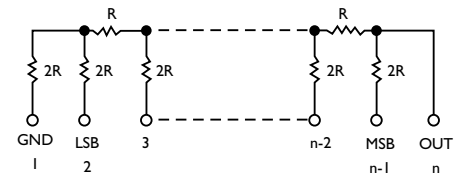
R/2R Ladder Networks for D/A and A/D Converter with Bi-Polar or CMOS Switches



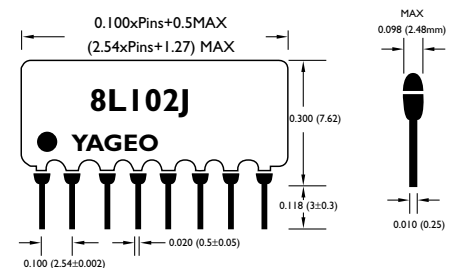
OUTPUT IMPEDANCE TEST CIRCUIT



SCHEMATICS



DIMENSIONS



N0. of PINS	6	7	8	9	10
N0. of BITS	4	5	6	7	8

Note :

ELECTRICAL CHARACTERISTICS

STYLE	RNL	RNM	RNH
Power Rating at 70°C			
For Other Circuit	0.125W	0.15W	0.25W
For B & Y Circuit	0.20W	0.25W	0.35W
Maximum Working Voltage	100V	150V	200V
Dielectric Withstand Voltage	500V		
Temperature Coefficient	± 100ppm/°C (±250ppm/°C for <50Ω or >2.2MΩ)		
Operating Temp. Range	-55°C to +125°C		
Resistance Range	10Ω ~ 1MΩ		
Resistance Tolerance(by Type)	±2%	±5%	

* Resistance Range for Standard Resistance, Below or Over this Resistance on Request.

ENVIRONMENTAL CHARACTERISTICS

PERFORMANCE TEST	TEST METHOD		APPRAISE
Temperature Coefficient	MIL-STD-202F, Method 304	-55°C to +125°C	by Type
Thermal Shock	MIL-STD-202F, Method 107	5 Cycles, -55°C to +125°C (Step by Step 2min.)	±(0.5%+0.1Ω)
Insulation Resistance	MIL-R-202F, METHOD 202	DC for 1 Minute as Show	>1000MΩ
Short Time Overload	MIL-R-55342D, Para.4.7.5	2.5 Times RCWV for 5 Seconds	±(0.5%+0.1Ω)
Dielectric Withstand Voltage	MIL-STD-202F, Method 301	R.M.S. for 1 Minute	by Type
Low Temperature Operation	MIL-R-55342D, Para.4.7.4	One Hour at -65°C Followed by 45 Minutes RCWV	±(1%+0.05Ω)
Moisture Resistance	MIL-STD-202F, Method 106F	42Cycles.Total 1000 Hours	±(3%+0.1Ω)
Life	MIL-STD-202F, Method 108A	1000 Hours at 70°C RCWV Intermittent	±(3%+0.1Ω)
Solderability	MIL-STD-202F, Method 208G	230°C for 5 Seconds	>95% Coverage
Resistance to Soldering Heat	MIL-STD-202F, Method 210C	Soldered to Test Board at 260°C for 10 Seconds	±(0.5%+0.1Ω)