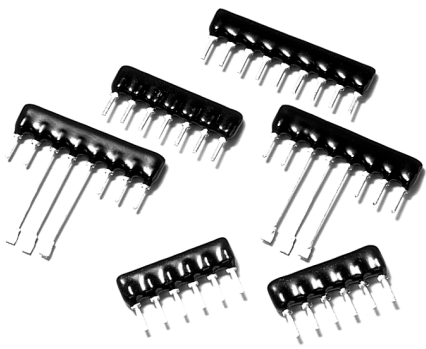


Sip Resistors Network

RNL/RNM/RNH Series

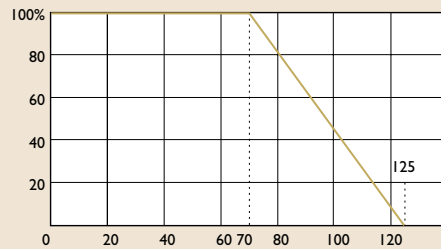


FEATURES

- 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

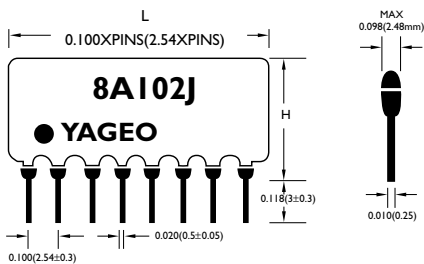
Rated Load



Ambient Temperature(°C)

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

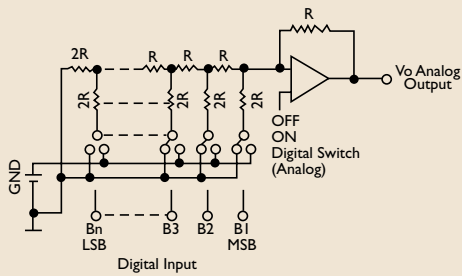
RNL Series

[For R/2R]

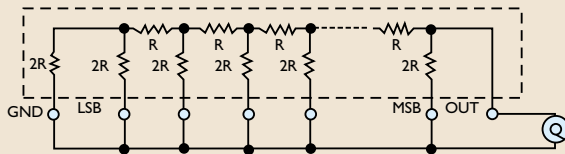
Sip Resistors Network

APPLICATIONS

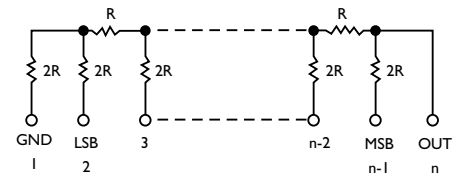
R/2R Ladder Networks for D/A and A/D Converter with Bi-Polar or CMOS Switches



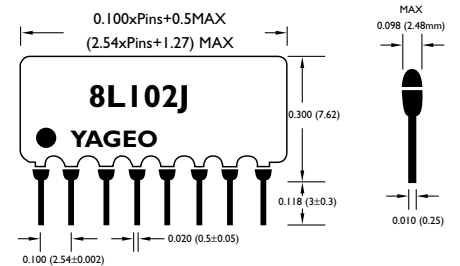
OUTPUT IMPEDANCE TEST CIRCUIT



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)