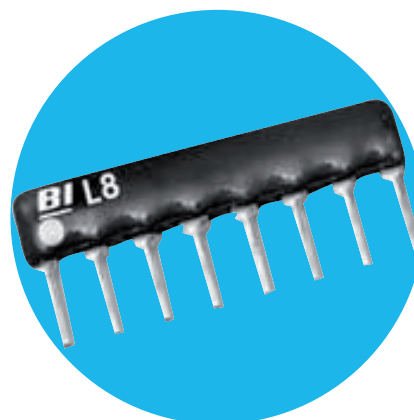


SIL Resistor Network

L Series

- Thick Film
- Low Profile SIP
- Conformal Coated
- Resistor Networks
- RoHS Compliant



 All parts are Pb-free and comply with EU Directive 2011/65/EU (RoHS2)

Electrical

Standard Resistance Range, Ohms	1%: 22R - 1M; 2%: 10R - 5M6; 5%: 10R - 10M
Standard Resistance Tolerance, at 25°C	±2% Optional: ±1% (F Tol.), ±5% (J Tol.)
Operating Temperature Range	-55°C to +125°C
Temperature Coefficient of Resistance	±100ppm/°C (<50 Ohms = ±250ppm/°C)
Temperature Coefficient of Resistance, Tracking	±50ppm/°C
Maximum Operating Voltage	100Vdc or VPR
Insulation Resistance	≥10,000 Megohms

Environmental

Thermal Shock plus Power Conditioning	ΔR 0.70%
Short Time Overload	ΔR 0.25%
Terminal Strength	ΔR 0.25%
Moisture Resistance	ΔR 0.50%
Mechanical Shock	ΔR 0.25%
Vibration	ΔR 0.25%
Low Temperature Storage	ΔR 0.25%
High Temperature Exposure	ΔR 0.50%
Load Life, 1,000 Hours	ΔR 1.00%
Resistance to Solder Heat (Per MIL-STD-202, Method 210, Cond.B)	ΔR 0.25%
Dielectric Withstand Voltage	200V for 1 minute
Marking Permanency	MIL-STD 202, Method 215
Lead Solderability	MIL-STD 202, Method 208
Flammability	UL-94V-O Rated
Storage Temperature Range	-55°C to +150°C

Specifications subject to change without notice.

General Note

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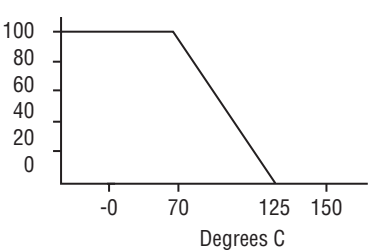
L Series

Mechanical

Lead Finish	SnAgCu
Substrate Material	Alumina
Resistor Material	Cermet
Body Material	Conformal Epoxy Resin, red or black

Standard Resistance Values, Ohms

Power Derating Curve

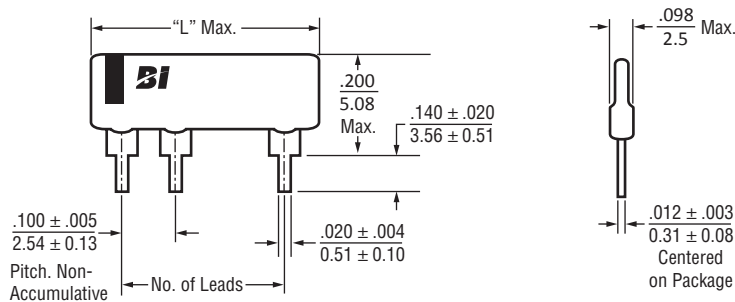
-3 Circuit (Isolated Resistors) & -1 Circuits (Bussed Resistors)						Percent of Rated Power				
Ohms	Code	Ohms	Code	Ohms	Code					
22	220	820	821	33K	333					
27	270	1K	102	39K	393					
33	330	1.2K	122	47K	473					
39	390	1.5K	152	51K	513					
47	470	1.8K	182	56K	563					
51	510	2K	202	68K	683					
56	560	2.2K	222	82K	823					
68	680	2.7K	272	100K	104					
82	820	3.3K	332	120K	124					
100	101	3.9K	392	150K	154					
120	121	4.7K	472	180K	184					
150	151	5.1K	512	200K	204					
180	181	5.6K	562	220K	224					
200	201	6.8K	682	270K	274					
220	221	8.2K	822	330K	334					
270	271	10K	103	390K	394					
330	331	12K	123	470K	474					
390	391	15K	153	510K	514					
470	471	18K	183	560K	564					
510	511	20K	203	680K	684					
560	561	22K	223	820K	824					
680	681	27K	273	1Meg	105					
-5 Circuit (Dual Terminators)						Power Dissipation, Watts At 70°C				
Ohms	Code	Ohms	Code	Ohms	Code	— Resistor (Per Circuit) —				
R1/R2	R1/R2	R1/R2	R1/R2	R1/R2	R1/R2	Model	Package	-1	-3	-5
180/390	181/391	330/390	331/391	3K/6.2K	302/622	L06	.6	.125	.200	.125
220/270	221/271	330/470	331/471	-	-	L08	.8	.125	.200	.125
220/330	221/331	330/680	331/681	-	-	L10	1.0	.125	.200	.125

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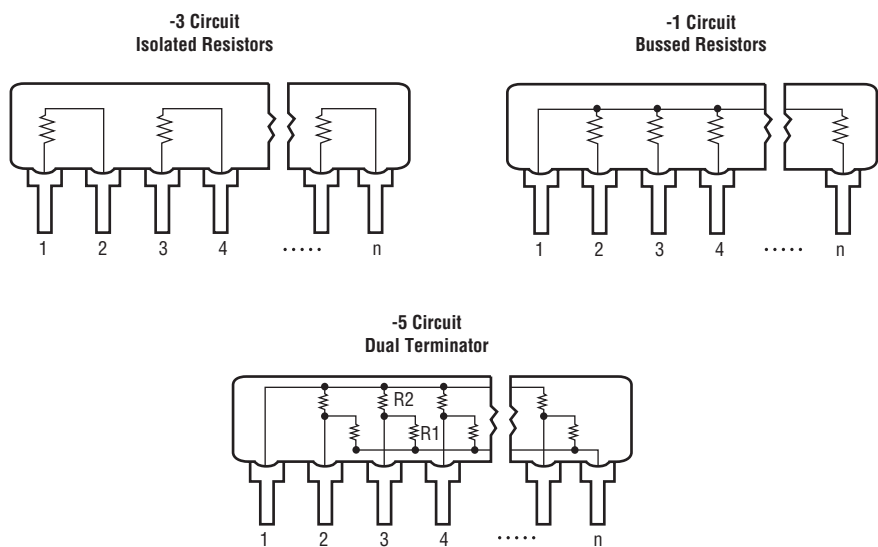
L Series

Outline Dimensions (Inch/mm)



# of Leads	4	5	6	7	8	9	10	11	12	13	14
Dim. "L" Max.	.40 10.16	.50 12.70	.60 15.24	.70 17.78	.80 20.32	.90 22.86	1.00 25.40	1.10 27.94	1.20 30.48	1.30 33.02	1.40 35.56

Schematics

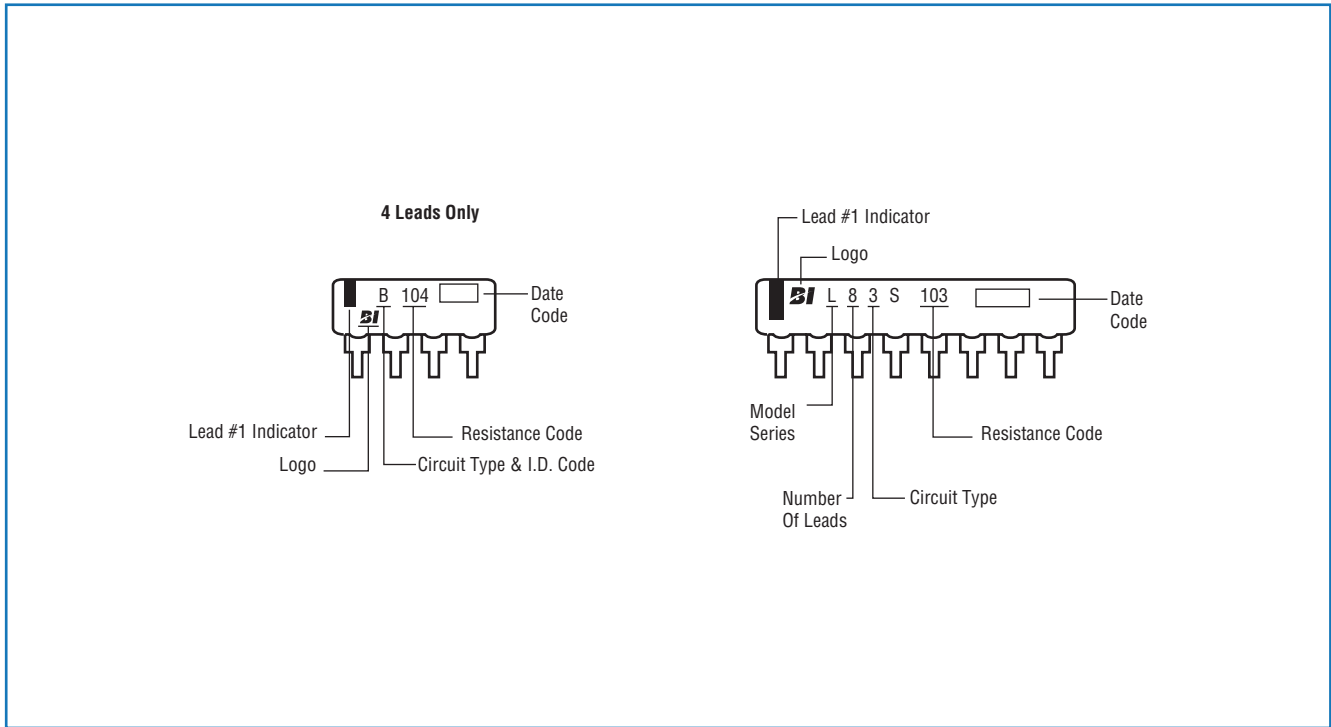


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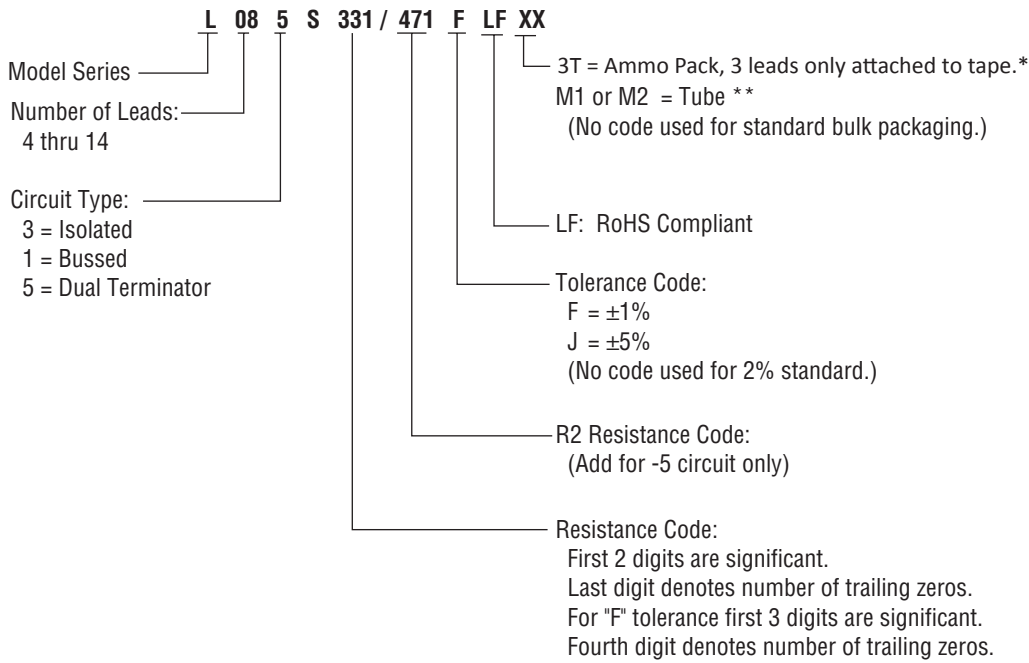
L Series

Typical Part Marking



L Series

Ordering Information



* Refer to Packaging for Automation section (Page A-3) for Ammo Pack capacity and dimensions.

** Refer to Packaging for Automation section (Page A-4) for M1 and M2 tube capacity and dimensions.

Applicable Documents

MIL-R-83401 — Resistor Networks, Fixed, Film, General Specifications
MIL-STD-105 — Sampling Procedures and Tables for Inspection by Attributes
MIL-STD-202 — Test Methods for Electronic and Electrical Component Parts

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