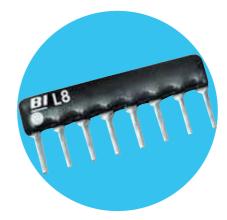
Resistors

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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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	3 Circuit (Isolat	ed Resistors) 8	& -1 Circuits (B	ussed Resisto	rs)								
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	2К	202	68K	683								
56	560	2.2K	222	82K	823								
68	680	2.7K	272	100K	104		100 - 80 - 60 -	J					
82	820	3.3K	332	120K	124			_					
100	101	3.9K	392	150K	154	Percent o		-	\backslash				
120	121	4.7K	472	180K	184	Rated Po	20 400 70			125 150			
150	151	5.1K	512	200K	204				$\langle \rangle$				
180	181	5.6K	562	220K	224				70 125				
200	201	6.8K	682	270K	274			Degrees C	С				
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 (Dua	al Terminators)		Pov	ver Dissij	pation, W	/atts At 7	′0°C			
Ohms	Code	Ohms	Code	Ohms	Code		— Res	sistor (Per Circ	uit) —	•••••			
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			
220/270	,									.120			

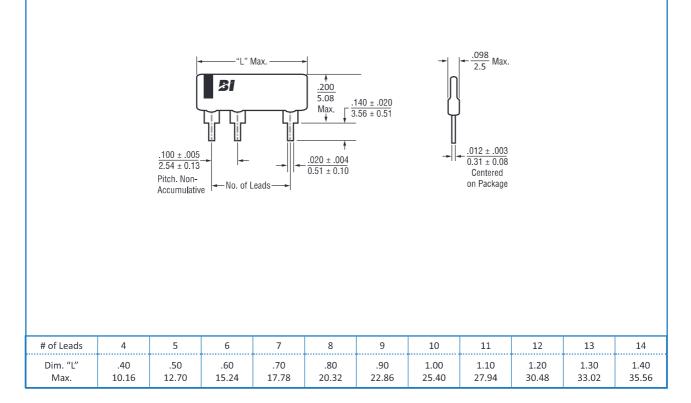
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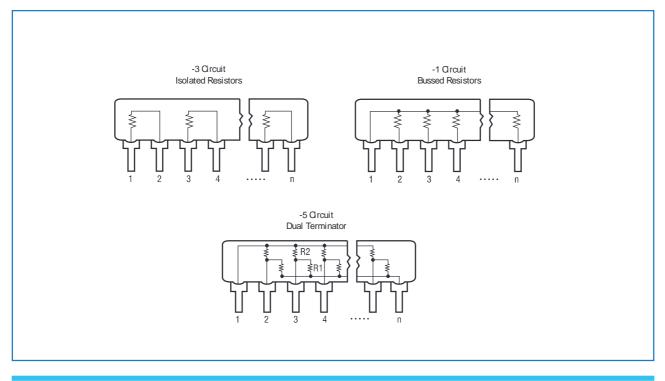
L Series



Outline Dimensions (Inch/mm)



Schematics



General Note

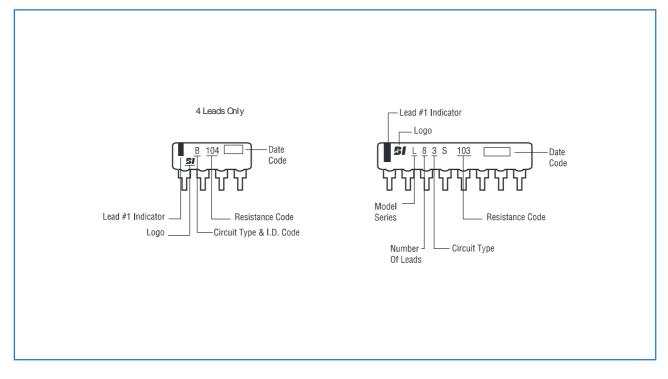
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Bi technologies <u>OIRC</u> Welwyn

L Series



Typical Part Marking



Packaging

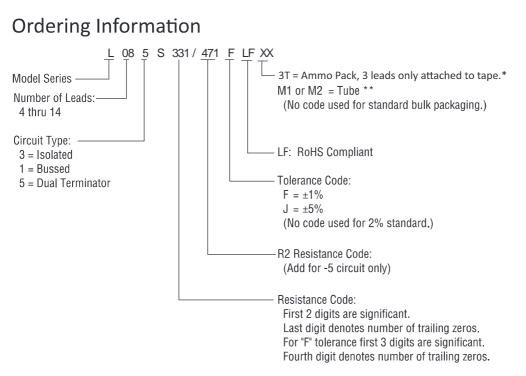
Standard:	Bulk:	Quantity	=	4 -10 pins: 200 per bag, 1000 per box 11 -14 pins: 100 per bag, 500 per box
	Tape in Ammo Box (4 - 10 pins only). All Units oriented with lead #1 to the left of direction of feed.			
Option:	T	Width	=	18mm
	Tape:	Pitch	=	12.7mm
	Ammo Box:	Capacity	=	1,000 units per box. 12,000 units per carton

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L Series



- * 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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