

L Series

Features

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





All parts are Pb-free and comply with EU Directive 2011/65/EU amended by (EU) 2015/863 (RoHS3)

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.)
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
Element Power Rating @70°C	Circuits -1 & -5: 125mW, circuit -3: 200mW
Package Power Rating @70°C	100mW per pin
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



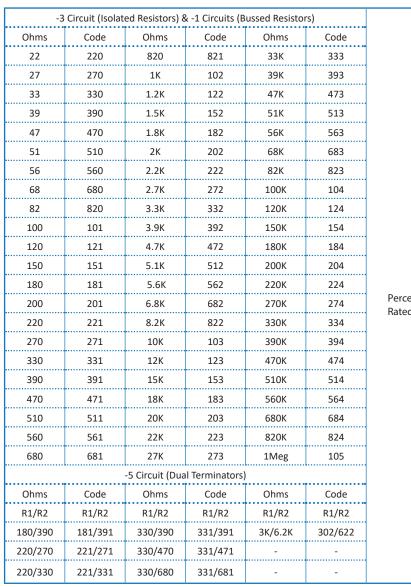
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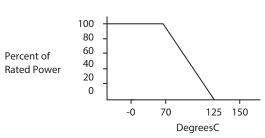
Mechanical

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

Standard Resistance Values, Ohms

Power Derating Curve

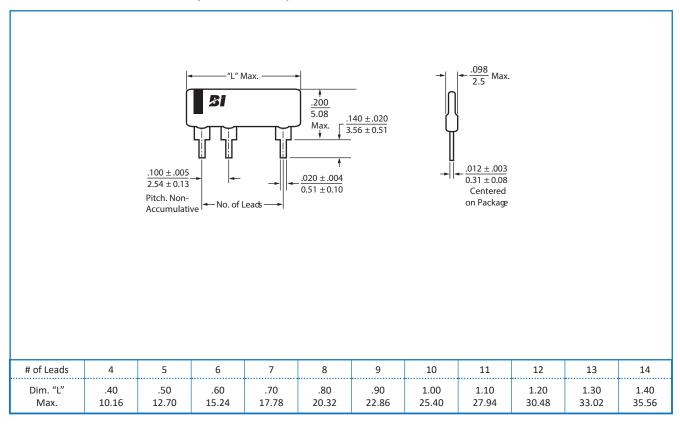




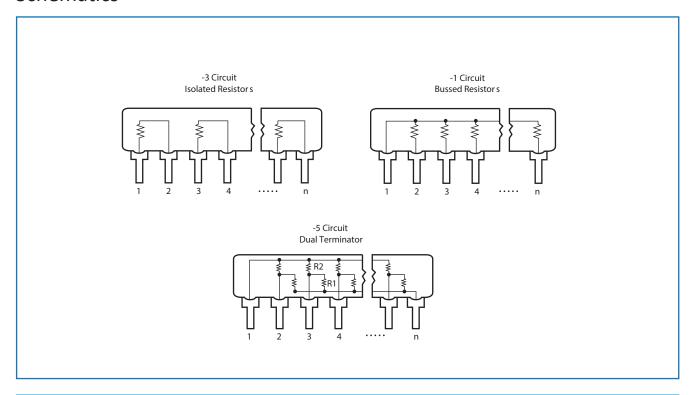


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Outline Dimensions (Inch/mm)



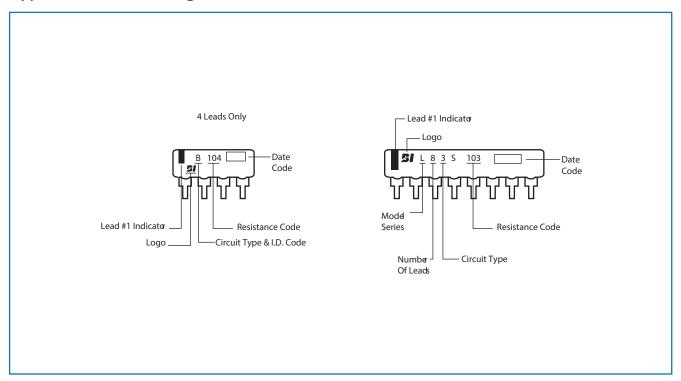
Schematics





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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: Tape:	T	Width	=	18mm	
	таре:	Pitch	=	12.7mm	
	Ammo Box:	Capacity	=	1,000 units per box. 12,000 units per carton	



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Ordering Procedure

Example: L085S331/471FLF (L08, circuit 5, steel leadframe, R1=330 ohms ±1%, R2=470 ohms ±1%, Pb-free, bulk pack)



1	2	3	4	5	6	7	8	9
Series	Number of Pins	Circuit Type	Pin Type	R1 Value	R2 Value	Tolerance	Finish	Packing
L	04	1 = Bussed	S = Steel	2 digits +	/ 2 digits +	F = ±1%	LF =	Omit for bulk (standard)
	05	3 = Isolated	leadframe	multiplier	multiplier	Omit for ±2%	Pb-free	3T = ammo pack, 3 leads
	06	5 = Dual			(Circuit type	(standard)		only attached to tape
	07	Terminator			5 only)			
	08					-		
	09							
	10							
	11							
	12							
	13							
	14							

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TT Electronics:

<u>L105C331/471LF</u> <u>L081S750LF</u> <u>L083S100LF</u> <u>L061S750LF</u> <u>L083S271LF3T</u> <u>L083S271LFM1</u> <u>L061S751LF</u> L103S750LF