SIL Resistor Network

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

General Note

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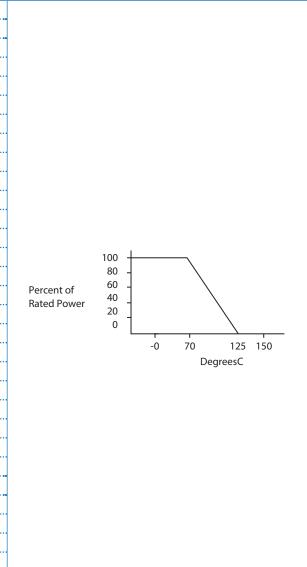


Mechanical

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

Standard Resistance Values, Ohms

-3 Circuit (Isolated Resistors) & -1 Circuits (Bussed Resistors) 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 2.2K 222 823 56 560 82K 680 2.7K 100K 104 68 272 124 82 820 3.3K 332 120K 100 101 3.9K 392 150K 154 120 4.7K 121 472 180K 184 200K 204 150 151 5.1K 512 224 180 181 5.6K 562 220K 200 201 6.8K 682 270K 274 220 221 8.2K 822 330K 334 270 10K 390K 394 271 103 12K 470K 474 330 331 123 390 391 15K 153 510K 514 470 471 18K 183 560K 564 20K 203 680K 684 510 511 560 561 22K 223 820K 824 681 1Meg 680 27K 273 105 -5 Circuit (Dual Terminators) Ohms Code Ohms Code Code Ohms R1/R2 R1/R2 R1/R2 R1/R2 R1/R2 R1/R2 3K/6.2K 180/390 181/391 330/390 331/391 302/622 220/270 221/271 330/470 331/471 --220/330 221/331 330/680 331/681 _ _



Power Derating Curve

General Note

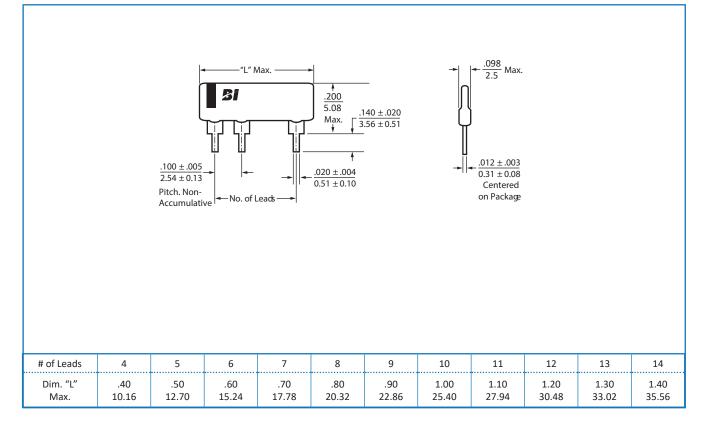
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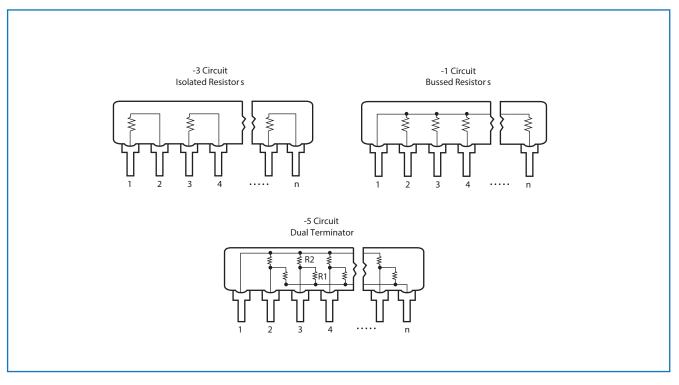


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Outline Dimensions (Inch/mm)



Schematics



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BI Technologies IRC Welwyn

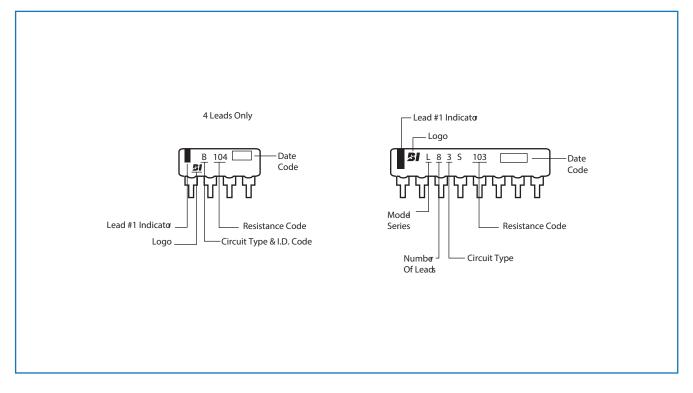
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Typical Part Marking



Packaging

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

L 0 8 5 S	3 3 1	/ 4 7 1 F	LF
1 2 3 4	5	6 7	89

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%		Omit for bulk (standard)
	05	3 = Isolated	leadframe	multiplier		Omit for ±2%	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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