Resistors

SIL Resistor Network

L Series

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



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
Power Rating @70°C (per resistor element)	Circuits -1 & -5: 125mW, circuit -3: 200mW
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

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.



www.ttelectronics.com/resistors





Electronics

L Series

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 Code Ohms Code Ohms 820 33K 22 220 821 333 1K 27 270 102 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 4.7K 472 180K 121 184 200K 204 150 151 5.1K 512 180 181 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 560K 183 564 510 511 20K 203 680K 684 560 561 22K 223 820K 824 680 681 27K 105 273 1Meg -5 Circuit (Dual Terminators) Ohms Code Ohms Code Ohms Code R1/R2 R1/R2 R1/R2 R1/R2 R1/R2 R1/R2 180/390 181/391 330/390 331/391 3K/6.2K 302/622 220/270 221/271 330/470 331/471 _ _ 221/331 330/680 220/330 331/681 --



Power Derating Curve

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L Series

Outline Dimensions (Inch/mm)



Schematics



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

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BI Technologies IRC Welwyn



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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TT Electronics:

L101S332 L061S101LF L061S102LF L061S103LF L061S104LF L061S121LF L061S152LF L061S153LF
L061S181LF L061S202LF L061S220LF L061S221LF L061S222LF L061S223LF L061S271LF L061S272LF
L061S331LF L061S332LF L061S333LF L061S471LF L061S472LF L061S473LF L061S821LF L063S101LF
L063S102LF L063S103LF L063S104LF L063S121LF L063S153LF L063S203LF L063S221LF L063S222LF
L063S223LF L063S224LF L063S271LF L063S272LF L063S273LF L063S332LF L063S333LF L063S390LF
<u>L063S392LF</u> <u>L063S393LF</u> <u>L063S470LF</u> <u>L063S471LF</u> <u>L063S472LF</u> <u>L063S473LF</u> <u>L063S822LF</u> <u>L065S302/622LF</u>
L091S222LF L091S331LF L091S471LF L091S472LF L091S473LF L091S474LF L101S101LF L101S102LF
L101S103LF L101S104LF L101S105LF L101S121LF L101S151LF L101S152LF L101S153LF L101S182LF
L101S183LF L101S202LF L101S203LF L101S221LF L101S222LF L101S223LF L101S224LF L101S271LF
L101S272LF L101S273LF L101S331LF L101S332LF L101S333LF L101S391LF L101S392LF L101S471LF
L101S472LF L101S473LF L101S474LF L101S560LF L101S561LF L101S562LF L101S681LF L101S682LF
L101S821LF L103S101LF L103S102LF L103S103LF L103S104LF L103S105LF L103S121LF L103S122LF
L103S123LF L103S151LF L103S152LF L103S203LF