- HIGH ACCURACY
- Low Temperature Coefficients
- HIGH IMMUNITY FROM
 ENVIRONMENTAL EFFECTS
- HIGH RELIABILITY
- From 0.01 Ω to 10 MΩ
- By Special Order Only

LEEDS & NORTHRUP 'TOP HAT' TYPE

JULIE R22 & R34 EPOXY TYPES 4-WIRE & 2-WIRE OIL FILLED TYPES R48 TYPE

Ohm-Labs' can supply critical resistor components to customers who require the highest quality and reliability.

Our acquisition of Leeds & Northrup's, Honeywell's and Julie Research Labs' resistor manufacturing materials and wire allows us to continue to offer wire wound resistors using these designs and materials.

Ohm-Labs can supply and support all of L&N, Honeywell and Julie Research Labs resistor products. Please provide us with their OEM part number for a quotation.

To specify precision resistors, please refer to the chart to the right. First, select the type: (epoxy encapsulated), either 'R' 'Η' (hermetically sealed and oil filled), or 'T' (top hat, or radial lead). Then, select the desired size (diameter and length). Specify 2-wire or 4wire construction (4-wire is recommended below 10 ohms). Specify your desired accuracy (Temperature and TCR Coefficient of Resistance). Finally, specify the resistance.

Please note that due to wire size restrictions, not all resistance values are available in all sizes.

Smaller resistors (<34 size) are $\frac{1}{2}$ W. Larger size are 1 W. For higher power, specify –HK Heat Sink construction.

Ohm-Labs can manufacture custom-matched resistor sets for precision ratio applications.

Type and Size Selection					
Туре	Diameter in 1/8 th s	Length in ¼'s	Leads		
R = Epoxy	2/8 = 1/4"	$2/4 = \frac{1}{2}$ "	2 -		
H = Oil Filled	3/8"	3⁄4"	wire		
Herm. Sealed	4/8 = ½"	4/4 = 1"	4 -		
T = Top Hat		6/4 = 1.5"	wire		
(Radial)		8/4 = 2"			

Precision Resistor Part Number Guide:

Tolerance and Resistance Selection:

Accuracy	TCR	Resistance				
A = 0.1%	ppm/°C	Specify				
B = 0.05%	A = <20	resistance				
C = 0.025%	B = <10					
D = 0.01%	C = <5					
E = 0.005%	D = <3					
F = 0.0025%	E = <1					
G = 0.001%						
Examples:						

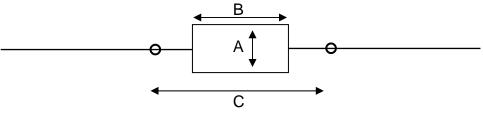
R462DC-1M = Epoxy $\frac{1}{2}$ " x 1.5" 2-wire 0.01% 5 ppm TCR 1 Meg H484AD-1 = Oil filled $\frac{1}{2}$ " x 2" 4-wire 0.1% 3 ppm TCR 1 Ohm T422BB-25.5 = Radial $\frac{1}{2}$ " x $\frac{1}{2}$ " 2-wire 0.05% 10 ppm TCR 25.5 Stated accuracy is at time of manufacture. 12-month initial stability is typically <20 ppm



CUSTOM PRECISION WIRE-WOUND RESISTORS

Dimensions and mounting

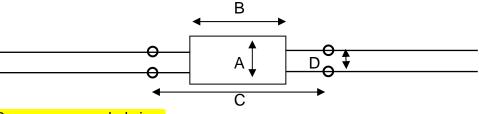
2-wire resistors:



		For 2-w	vire resisto	rs, R or H	type, dim	ensions ar	nd recomm	ended hole	spacing		
Type R	A mm/"	B mm/"	C mm/"	Type R H T	A	В	С	Type R H T	A	В	С
22	6	12.7	20.3	<mark>32</mark>	9.5/	12.7	20.3	42	12.7	12.7	20.3
23	6	19.1	25.4	34	9.5	25.4	38.1	<mark>44</mark>	12.7	25.4	38.1
24	6	25.4	35.6	36	9.5	38.1	50.8	46	12.7	38.1	50.8
Wire	50 x 0.65 (22 AWG)			Wire	50 x 0.82 (20 AWG)		48 Wire	12.7 50.8 76.2 50 x 1.03 (18 AWG)			
		Fo	4-wire res	sistors, R	or H type,	recomme	nded 'D' le	ad wire spa	acing		
Туре	D hole s	oacing		Туре	D hole spacing		Туре	D hole spacing			
2x	(Not ava	ilable in 4-	wire)	3x	5.1			4x	7.6		
	11 8 D18	oro rocom	mondod					•			

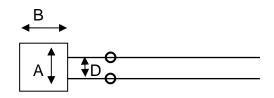
R32, R44 & R48 are recommended sizes

4-wire resistors:



H34, H36 & H48 are recommended sizes

Top hat radial lead resistors:



T32 & T44 are recommended sizes