

Lab Experiment 1

Resistors and Circuit Construction

Procedure:

1. Obtain 3 resistors from the instructor. Using the resistor color code chart given below, determine the value of each resistor.
2. Use the DMM (digital multi-meter) to read the value of the resistors. Note any differences.
3. Cut out the table below and glue/tape this into your lab manual for future reference.

4-Band-Code

2%, 5%, 10%

500kΩ ± 5%

COLOR	1st BAND	2nd BAND	3rd BAND	MULTIPLIER	TOLERANCE
Black	0	0	0	1Ω	
Brown	1	1	1	10Ω	± 1% (F)
Red	2	2	2	100Ω	± 2% (G)
Orange	3	3	3	1kΩ	
Yellow	4	4	4	10kΩ	
Green	5	5	5	100kΩ	± 0.5% (D)
Blue	6	6	6	1MΩ	± 0.25% (C)
Violet	7	7	7	10MΩ	± 0.10% (B)
Grey	8	8	8		± 0.05%
White	9	9	9		
Gold				0.1	± 5% (J)
Silver				0.01	± 10% (K)

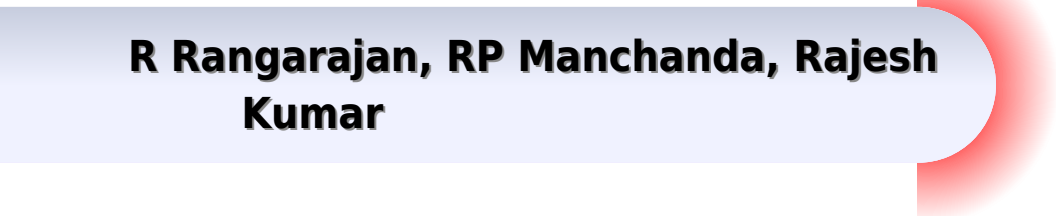
0.1%, 0.25%, 0.5%, 1%

5-Band-Code

237Ω ± 1%

Resistor Lab Manual

**R Rangarajan, RP Manchanda, Rajesh
Kumar**



Resistor Lab Manual:

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In a digitally-driven world where displays reign great and instant communication drowns out the subtleties of language, the profound techniques and emotional nuances hidden within words often get unheard. Yet, situated within the pages of **Resistor Lab Manual** a charming literary value blinking with raw feelings, lies an exceptional journey waiting to be undertaken. Penned by a talented wordsmith, this charming opus encourages readers on an introspective journey, softly unraveling the veiled truths and profound impact resonating within the very material of every word. Within the mental depths of this touching evaluation, we can embark upon a genuine exploration of the book's primary themes, dissect their interesting publishing model, and yield to the effective resonance it evokes seriously within the recesses of readers' hearts.

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