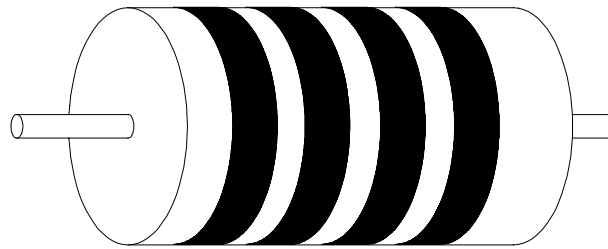


Appendix B

Resistor Colour Codes



1st 2nd 3rd 4th
BANDS

Colour	First Band	Second Band	Third Band	Fourth Band
Black	0	0	10^0	
Brown	1	1	10^1	
Red	2	2	10^2	
Orange	3	3	10^3	
Yellow	4	4	10^4	
Green	5	5	10^5	
Blue	6	6	10^6	
Violet	7	7	10^7	
Gray	8	8	10^8	
White	9	9	10^9	
Gold	-	-	10^{-1}	$\pm 5\%$ tolerance
Silver	-	-	10^{-2}	$\pm 10\%$ tolerance
None	-	-	-	$\pm 20\%$ tolerance

For example, the resistance of a resistor whose bands are yellow, violet, red, gold is $47 \times 10^2 \rightarrow 4.7 \text{ K}\Omega \pm 10\%$ or 4K7 Ohm.