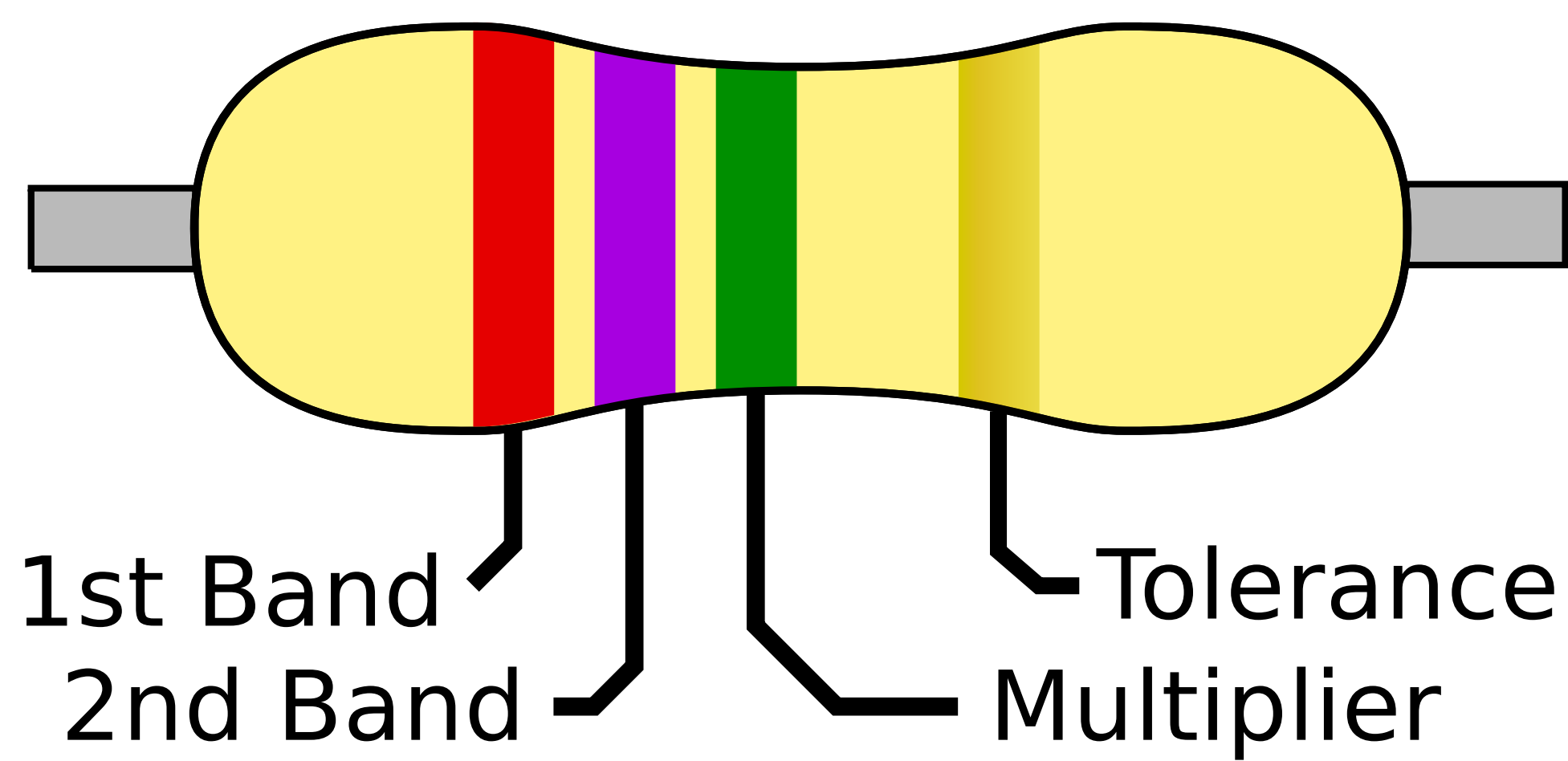
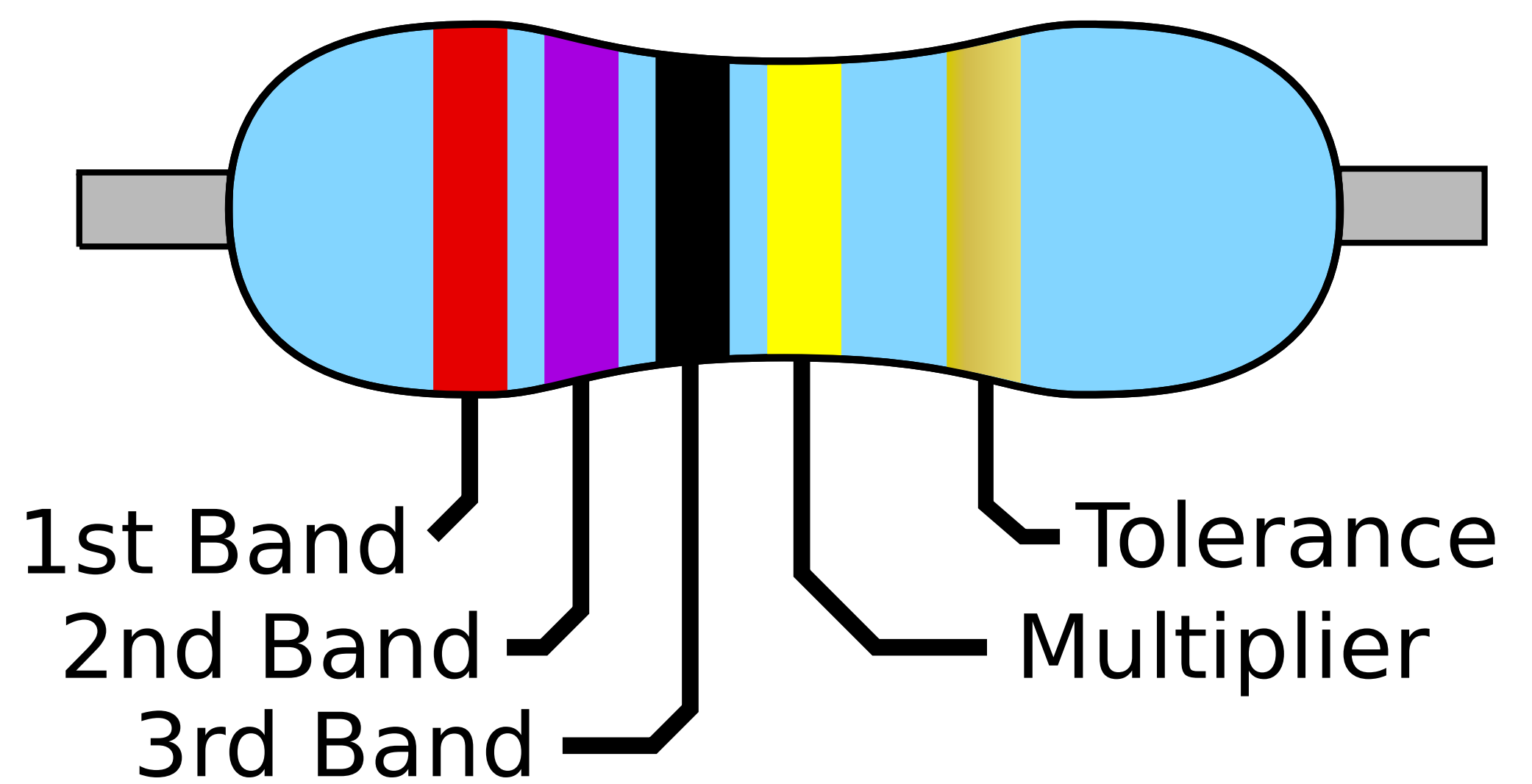


Resistor Color Codes

4-Band



5-Band



Color	Value	Value	Value (optional)	Multiplier	Tolerance	Temp. Coefficient (optional)
Black	0	0	0	$\times 10^0$		
Brown	1	1	1	$\times 10^1$	$\pm 1\%$	100 ppm
Red	2	2	2	$\times 10^2$	$\pm 2\%$	50 ppm
Orange	3	3	3	$\times 10^3$		15 ppm
Yellow	4	4	4	$\times 10^4$		25 ppm
Green	5	5	5	$\times 10^5$	$\pm 0.5\%$	
Blue	6	6	6	$\times 10^6$	$\pm 0.25\%$	
Violet	7	7	7	$\times 10^7$	$\pm 0.1\%$	
Grey	8	8	8	$\times 10^8$	$\pm 0.05\%$	
White	9	9	9	$\times 10^9$		
Gold					$\pm 5\%$	
Silver					$\pm 10\%$	
None					$\pm 20\%$	

Surface-mount Resistors

