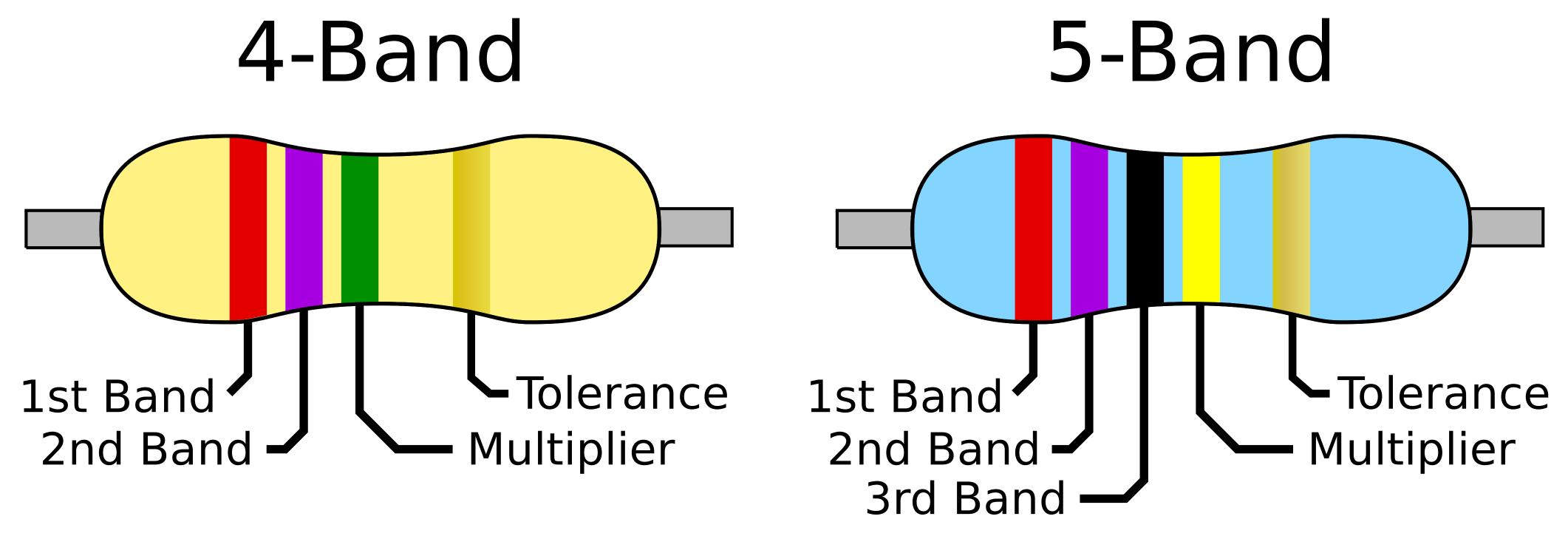
## Resistor Color Codes



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

## Surface-mount Resistors

