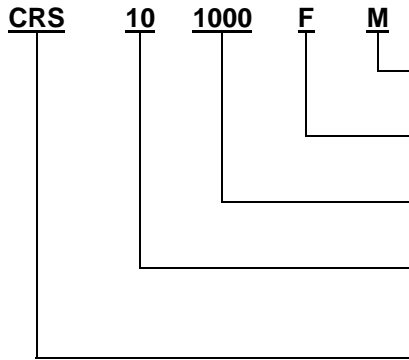


## CRS/CJS Series SMD Resistors

Custom solutions are available.

### HOW TO ORDER



#### Packaging

M = 7" Reel      B = Bulk

#### Tolerance (%)

J =  $\pm 5$    G =  $\pm 2$    F =  $\pm 1$    D =  $\pm 0.5$

#### EIA Resistance Value

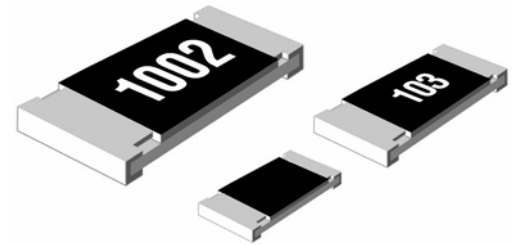
Standard Decade Values

#### Size

16 = 0603    18 = 1206  
10 = 0805    14 = 1210

#### Series

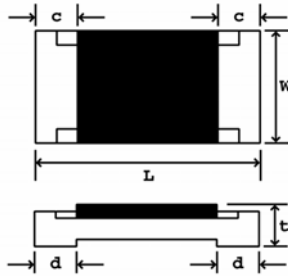
CJS = Jumper      CRS = Resistor



### FEATURES

- Gold (Au) Terminations prevents sulfuration in a sulfur containing environment
- Ideal solder attachment and improved conductivity
- High Stability Thick Film Resistor
- Operating temperature  $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$
- Tolerances as tight as  $\pm 0.5\%$
- TCR to  $\pm 200\text{ppm}$

### SCHEMATIC

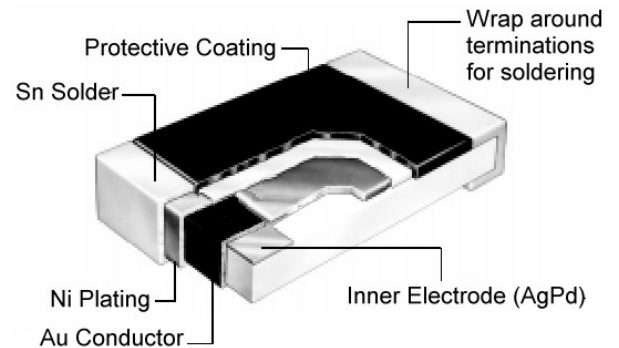


### DIMENSIONS (mm)

Size	L	W	t	c	d
0402	$1.00 \pm 0.005$	$0.50 \pm 0.05$	$0.35 \pm 0.05$	$0.20 \pm 0.10$	$0.25 \pm 0.05, 0.10$
0603	$1.60 \pm 0.15$	$0.80 \pm 0.15$	$0.45 \pm 0.10$	$0.30 \pm 0.20$	$0.30 \pm 0.20$
0805	$2.00 \pm 0.20$	$1.25 \pm 0.10$	$0.50 \pm 0.10$	$0.40 \pm 0.20$	$0.40 \pm 0.20$
1206	$3.20^{+0.015-0.20}$	$1.60^{+0.05-0.15}$	$0.60 \pm 0.10$	$0.50 \pm 0.25$	$0.50 \pm 0.30$
1210	$3.20 \pm 0.10$	$2.50^{+0.20-0.10}$	$0.60 \pm 0.10$	$0.50 \pm 0.20$	$0.50 \pm 0.20$
2010	$5.00 \pm 0.20$	$2.50 \pm 0.15$	$0.60 \pm 0.10$	$0.60 \pm 0.20$	$0.50 \pm 0.30$
2512	$6.30 \pm 0.20$	$3.20 \pm 0.20$	$0.60 \pm 0.10$	$0.70 \pm 0.20$	$0.70 \pm 0.20$

### CONSTRUCTION

Substrate	96% Alumina	
Resistive Element	RuO <sub>2</sub>	
Protective Coating	Boric/Silicate Acid Lead Glass	
Terminal	Upper Inner Layer	Au
	Side/Bottom Layer	AgPd
	Middle Layer	Ni
	Outer Layer	Sn



Size	0402	0603	0805	1206	1210	2010	2512
Power Rating (EIA 575)	0.063W	0.1W	0.10W	0.125W	0.25W	0.75W	1w
Max Working Voltage*	50V	50V	150V	200V	200V	200V	200V
Max Overload Voltage	100V	100V	300V	400V	400V	400V	400V
Tolerance (%)	$\pm 0.5, \pm 1, \pm 2$ $\pm 5$	$\pm 0.5, \pm 1, \pm 2$ $\pm 5$	$\pm 0.5, \pm 1, \pm 2$ $\pm 5$	$\pm 0.5, \pm 1, \pm 2$ $\pm 5$	$\pm 0.5, \pm 1, \pm 2$ $\pm 5$	$\pm 0.5, \pm 1, \pm 2$ $\pm 5$	$\pm 0.5, \pm 1, \pm 2$ $\pm 5$
EIA Values	E-96, E-24	E-96, E-24	E-96, E-24	E-96, E-24	E-96, E-24	E-96, E-24	E-96, E-24
Resistance	10 ~ 1 M $\Omega$	10 ~ 1 M $\Omega$	10 ~ 1 M $\Omega$	10 ~ 1 M $\Omega$	10 ~ 1 M $\Omega$	10 ~ 1 M $\Omega$	10 ~ 1 M $\Omega$
TCR (ppm/ $^{\circ}\text{C}$ )	$\pm 200$	$\pm 200$	$\pm 200$	$\pm 200$	$\pm 200$	$\pm 200$	$\pm 200$
Operating Temp.	$-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$	$-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$	$-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$	$-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$	$-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$	$-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$	$-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$

\* Rated Voltage:  $\sqrt{P \times R}$