

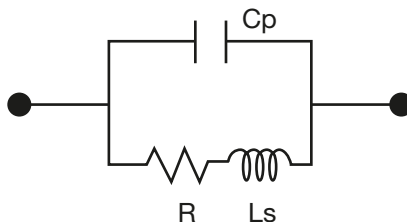
# Thick Film Chip Resistors

## Impedance, Parasitic Capacitance, & Parasitic Inductance Data

### Impedance ( |Z| )

Series	CR0402				CR0603			
Nominal Resistance ( $\pm 5\%$ )	18 $\Omega$	1.2 k $\Omega$	11 k $\Omega$	910 k $\Omega$	10 $\Omega$	1 k $\Omega$	10 k $\Omega$	10 M $\Omega$
Measured Resistance	18.206 $\Omega$	1.0909 k $\Omega$	10.53 k $\Omega$	895.7 k $\Omega$	9.9835 $\Omega$	1.0006 k $\Omega$	9.8578 k $\Omega$	10.076 M $\Omega$
Frequency Range : 1 MHz	18.239 $\Omega$	1.0958 k $\Omega$	10.531 k $\Omega$	883.39 k $\Omega$	11.318 $\Omega$	0.9999 k $\Omega$	9.8637 k $\Omega$	860.03 k $\Omega$
5 MHz	18.246 $\Omega$	1.0958 k $\Omega$	10.547 k $\Omega$	533.01 k $\Omega$	11.324 $\Omega$	0.9998 k $\Omega$	9.8639 k $\Omega$	458.67 k $\Omega$
10 MHz	18.243 $\Omega$	1.0958 k $\Omega$	10.524 k $\Omega$	419.06 k $\Omega$	11.332 $\Omega$	0.1000 k $\Omega$	9.8543 k $\Omega$	286.93 k $\Omega$
50 MHz	18.24 $\Omega$	1.0953 k $\Omega$	10.432 k $\Omega$	111.22 k $\Omega$	11.31 $\Omega$	0.9994 k $\Omega$	9.639 k $\Omega$	70.613 k $\Omega$
100 MHz	18.233 $\Omega$	1.0948 k $\Omega$	10.209 k $\Omega$	58.41 k $\Omega$	11.335 $\Omega$	0.9980 k $\Omega$	9.069 k $\Omega$	26.478 k $\Omega$
500 MHz	18.209 $\Omega$	1.0781 k $\Omega$	6.8415 k $\Omega$	12.015 k $\Omega$	11.388 $\Omega$	0.9688 k $\Omega$	4.8352 k $\Omega$	7.5493 k $\Omega$
1 GHz	18.198 $\Omega$	1.0473 k $\Omega$	4.441 k $\Omega$	5.048 k $\Omega$	11.635 $\Omega$	0.9037 k $\Omega$	2.9305 k $\Omega$	3.8416 k $\Omega$
Series	CR0805				CR1206			
Nominal Resistance ( $\pm 5\%$ )	10 $\Omega$	1 k $\Omega$	10 k $\Omega$	12 M $\Omega$	10 $\Omega$	3.2 k $\Omega$	10 k $\Omega$	10 M $\Omega$
Measured Resistance	9.937 $\Omega$	1.0097 k $\Omega$	9.9031 k $\Omega$	11.913 M $\Omega$	10.012 $\Omega$	3.332 k $\Omega$	9.9332 k $\Omega$	10.028 M $\Omega$
Frequency Range : 1 MHz	9.948 $\Omega$	1.0097 k $\Omega$	9.9267 k $\Omega$	1.0248 M $\Omega$	10.06 $\Omega$	3.331 k $\Omega$	9.9587 k $\Omega$	1.0096 M $\Omega$
5 MHz	9.9553 $\Omega$	1.0094 k $\Omega$	9.9015 k $\Omega$	422.26 k $\Omega$	10.066 $\Omega$	3.3312 k $\Omega$	9.9121 k $\Omega$	457.28 k $\Omega$
10 MHz	9.9527 $\Omega$	1.0095 k $\Omega$	9.8798 k $\Omega$	224.12 k $\Omega$	10.07 $\Omega$	3.3315 k $\Omega$	9.9159 k $\Omega$	248.5 k $\Omega$
50 MHz	9.9599 $\Omega$	1.0084 k $\Omega$	9.5292 k $\Omega$	51.604 k $\Omega$	10.068 $\Omega$	3.3172 k $\Omega$	9.5129 k $\Omega$	0 k $\Omega$
100 MHz	9.9645 $\Omega$	1.0067 k $\Omega$	8.6945 k $\Omega$	26.622 k $\Omega$	10.083 $\Omega$	0.2793 k $\Omega$	8.6372 k $\Omega$	31.338 k $\Omega$
500 MHz	10.043 $\Omega$	961.71 $\Omega$	3.8769 k $\Omega$	5.4372 k $\Omega$	10.332 $\Omega$	2.5757 k $\Omega$	4.0076 k $\Omega$	6.4395 k $\Omega$
1 GHz	10.406 $\Omega$	870.03 $\Omega$	2.246 k $\Omega$	2.7178 k $\Omega$	11.352 $\Omega$	1.8426 k $\Omega$	2.3565 k $\Omega$	3.1907 k $\Omega$

Measurement Devices: Resistance Range: TR6878 ADVANTEST  
|Z|, Cp, Ls: Hewlett Packard 4291A



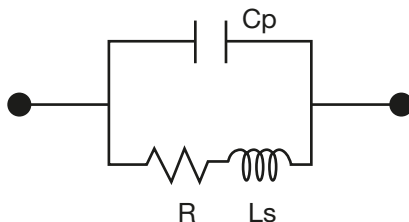
# Thick Film Chip Resistors

## Impedance, Parasitic Capacitance, & Parasitic Inductance Data

### Capacitance (Cp)

Series	CR0402				CR0603			
Nominal Resistance ( $\pm 5\%$ )	18 $\Omega$	1.2 k $\Omega$	11 k $\Omega$	910 k $\Omega$	10 $\Omega$	1 k $\Omega$	10 k $\Omega$	10 M $\Omega$
Measured Resistance	18.236 $\Omega$	1.0909 k $\Omega$	10.535 k $\Omega$	895.7 k $\Omega$	9.9835 $\Omega$	1.0006 k $\Omega$	9.8578 k $\Omega$	10.076 M $\Omega$
Frequency Range : 1 MHz	1.0582 pF	29.934 fF	30.887 fF	48.882 fF	5.1256 pF	84.226 fF	66.522 fF	52.512 fF
5 MHz	1.4736 pF	36.401 fF	32.382 fF	28.964 fF	4.8827 pF	65.94 fF	58.811 fF	52.738 fF
10 MHz	747.8 fF	36.572 fF	34.596 fF	31.131 fF	4.2997 pF	62.829 fF	61.949 fF	50.206 fF
50 MHz	825.1 fF	35.565 fF	34.155 fF	27.902 fF	3.5745 pF	62.262 fF	60.233 fF	44.936 fF
100 MHz	817.02 fF	35.23 fF	33.827 fF	27.027 fF	3.6613 pF	61.884 fF	58.933 fF	43.237 fF
500 MHz	792.15 fF	34.743 fF	32.33 fF	25.883 fF	3.5233 pF	61.2 fF	52.378 fF	42.083 fF
1 GHz	777.95 fF	34.943 fF	31.087 fF	26.008 fF	3.3333 pF	60.258 fF	48.741 fF	41.343 fF
Series	CR0805				CR1206			
Nominal Resistance ( $\pm 5\%$ )	10 $\Omega$	1 k $\Omega$	10 k $\Omega$	12 M $\Omega$	10 $\Omega$	3.2 k $\Omega$	10 k $\Omega$	10 M $\Omega$
Measured Resistance	9.933 $\Omega$	1.0097 k $\Omega$	9.9031 k $\Omega$	11.913 M $\Omega$	10.032 $\Omega$	3.332 k $\Omega$	9.9372 k $\Omega$	10.028 M $\Omega$
Frequency Range : 1 MHz	6.2567 pF	87.857 fF	87.47 fF	75.199 fF	9.777 pF	96.977 fF	58.224 fF	15.888 fF
5 MHz	7.3563 pF	80.159 fF	73.056 fF	66.292 fF	10.035 pF	66.954 fF	75.784 fF	56.135 fF
10 MHz	5.5203 pF	82.45 fF	82.064 fF	67.582 fF	8.8374 pF	72.101 fF	81.918 fF	57.941 fF
50 MHz	5.0551 pF	81.135 fF	79.524 fF	61.09 fF	8.1539 pF	71.695 fF	80.094 fF	51.763 fF
100 MHz	5.1047 pF	80.736 fF	78.473 fF	59.646 fF	8.3399 pF	71.27 fF	77.759 fF	50.493 fF
500 MHz	4.9154 pF	80.21 fF	71.104 fF	58.498 fF	7.803 pF	69.094 fF	66.779 fF	49.033 fF
1 GHz	4.556 pF	79.439 fF	67.184 fF	58.772 fF	6.5063 pF	65.72 fF	62.79 fF	49.535 fF

Measurement Devices: Resistance Range: TR6878 ADVANTEST  
 |Z|, Cp, Ls: Hewlett Packard 4291A



# Thick Film Chip Resistors

## Impedance, Parasitic Capacitance, & Parasitic Inductance Data

### Inductance (Ls)

Series	CR0402				CR0603			
Nominal Resistance ( $\pm 5\%$ )	18 $\Omega$	1.2 k $\Omega$	11 k $\Omega$	910 k $\Omega$	10 $\Omega$	1 k $\Omega$	10 k $\Omega$	10 M $\Omega$
Measured Resistance	18.236 $\Omega$	1.0909 k $\Omega$	10.53 k $\Omega$	895.7 k $\Omega$	9.9835 $\Omega$	1.0006 k $\Omega$	9.8578 k $\Omega$	10.036 M $\Omega$
Frequency Range : 1 MHz	495.54 pH	72.873 nH	3.638 uH	33.012 nH	1.0584 nH	71.429 nH	4.3573 uH	58.874 nH
5 MHz	462.59 pH	46.355 nH	3.3573 uH	12.559 nH	649.13 pH	65.182 nH	5.6331 uH	11.769 nH
10 MHz	260.63 pH	42.721 nH	3.9586 uH	5.5972 uH	507.95 pH	62.807 nH	6.0217 uH	4.1902 nH
50 MHz	281.22 pH	42.643 nH	3.1364 uH	349.17 uH	475.45 pH	61.837 nH	5.5795 uH	221.25 uH
100 MHz	274.1 pH	42.619 nH	3.5181 uH	92.534 uH	470 pH	61.535 nH	4.6579 uH	7.846 uH
500 MHz	261.52 pH	40.661 nH	1.5089 uH	3.822 uH	458.08 pH	57.711 nH	1.2266 uH	2.4043 uH
1 GHz	258.14 pH	38.422 nH	604.57 uH	962.51 uH	452.11 pH	49.564 nH	425.75 nH	613.95 uH
Series	CR0805				CR1206			
Nominal Resistance ( $\pm 5\%$ )	10 $\Omega$	1 k $\Omega$	10 k $\Omega$	12 M $\Omega$	10 $\Omega$	3.2 k $\Omega$	10 k $\Omega$	10 M $\Omega$
Measured Resistance	9.937 $\Omega$	1.0097 k $\Omega$	9.9031 k $\Omega$	11.913 M $\Omega$	10.072 $\Omega$	3.332 k $\Omega$	9.9372 k $\Omega$	10.028 M $\Omega$
Frequency Range : 1 MHz	589.15 pH	125.43 nH	8.1518 uH	113.66 nH	1.2854 nH	819.38 nH	8.858 uH	82.356 uH
5 MHz	759.76 pH	83.198 nH	7.2901 uH	11.89 nH	1.0533 nH	748.31 nH	7.1133 uH	12.103 uH
10 MHz	571.93 pH	83.309 nH	8.1707 uH	3.5124 nH	871.68 pH	822.64 nH	8.1694 uH	3.747 uH
50 MHz	495.46 pH	82.671 nH	1.2533 uH	163.44 uH	835.67 pH	783.08 nH	7.2092 uH	192.11 uH
100 MHz	508.15 pH	81.087 nH	5.9405 uH	42.326 uH	846.18 pH	766.48 nH	5.7946 uH	49.787 uH
500 MHz	496.52 pH	74.768 nH	1.0687 uH	1.7344 uH	839.65 pH	458.85 nH	1.0749 uH	2.034 uH
1 GHz	492.65 pH	60.435 nH	334.1 nH	432.56 nH	842.46 pH	223.39 nH	348.54 nH	510.53 uH

Measurement Devices: Resistance Range: TR6878 ADVANTEST  
 IZl, Cp, Ls: Hewlett Packard 4291A

