




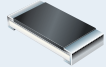









# Bourns® Resistor Networks

Model	Photo	Type	Features / Applications	Power per Resistor (W)	Number of Pins	Tolerance (%)	Resistance Range (Ohms)	TCR Resistor/Tracking (PPM /°C)
4100R		Thick Film	Through-Hole, DIP, Molded	0.125 to 0.250	8, 14, 16, 18, 20	0.5 to 5	10 to 10 M	100, 250 / 50
4400P		Thick Film	SMD, DIP, Molded, Wide Body	0.115 to 0.160	16, 20	0.5 to 5	10 to 2.2 M	100, 250 / 50
4800P		Thick Film	SMD, DIP, Molded, Medium Body	0.08 to 0.16	14, 16, 18, 20	0.5 to 5	10 to 2.2 M	100, 250 / 50, 100
4300 H/M/R		Thick Film	Through-Hole, SIP, Molded, Three Heights	0.20, 0.25, 0.30, 0.40	4, 6, 8, 9, 10, 11	0.5 to 5	10 to 10 M	100, 250 / 50
4600 H/M/X		Thick Film	Through-Hole, SIP, Conformal, Three Heights	0.20, 0.25, 0.30, 0.40	4 to 14	1, 2, 5	10 to 10 M	100, 250 / 50

Available Configurations: Isolated, Bussed, Dual Terminator, Series Circuit, R/2R

# Bourns® SMT Chip Resistors

Model	Photo	Type	Features / Applications	Power Ratings (W)	Size or Package	Tolerance (%)	Resistance Range (Ohms)	Temperature Coefficient (PPM /°C)
CR (A, AS, PF)		Thick Film	General Purpose AS - Sulfur-Resistant A - AEC-Q200 Compliant, PF - Ultra-Low Lead Content, Without RoHS Exemptions	0.03 to 1	01005 to 2512	1, 5	1 to 20 M and 0 Ohm jumper	100/200/400
CRL		Thick Film	Low Ohmic, Current Sense	1/10 to 1	0603 to 2512	1, 5	0.1 to 0.91	200
CRM (Q, A)		Thick Film	High Power, High Pulse Rating Current/Voltage Sense, Power Supply, Snubber Q - Automotive Grade, AEC-Q200 Compliant, A - Automotive Grade, AEC-Q200 Compliant, Sulfur Resistant	1/8 to 2	0603 to 2512	1, 5	0.047 to 1 M and 0 Ohm jumper	100 to 250
CRS (Q, A)		Thick Film	High Power Surge Withstand IEC 61000-4-5 1.2/50 µs Q - Automotive Grade, AEC-Q200 Compliant, A - Automotive Grade, AEC-Q200 Compliant, Sulfur Resistant	1/8 to 2	0603 to 2512	1, 5	1 to 1 M	100 to 200
CHP (Q, A)		Thick Film	Ultra High Power, Surge Withstand, Consumer and Industrial Electronics, Q - Automotive Grade, AEC-Q200 Compliant, A - Automotive Grade, AEC-Q200 Compliant, Sulfur Resistant	0.33 to 3	0603 to 2512	1, 5	0.1 to 1M	100 to 200
CMP (Q, A)		Thick Film	High Power, Surge Withstand Q - Automotive Grade, AEC-Q200 Compliant, A - Automotive Grade, AEC-Q200 Compliant, Sulfur Resistant	0.25 to 1.5	0603 to 2512	1, 5	1 to 1M	100 to 200
CRT (AS) (A)		Thin Film	Precision, Low TCR, Voltage Sense, Sulfur-Resistant Available Q - Automotive Grade, AEC-Q200 Compliant, A - Automotive Grade, AEC-Q200 Compliant, AS - Sulfur Resistant	1/16 to 1/4	0402 to 1206	0.1 to 1	AS - 1 to 2.49 M A - 10 to 1 M	AS - 2 to 50 A - 10 to 50
CFN (A)		Metal Foil	Current Sense A - Automotive Grade, AEC-Q200 Compliant	0.5, 1	0805, 1206	1, 5	0.005 to 0.02	50, 100
CFG		Metal Foil	Wide Terminal, Current Sense	1	0612	1	0.005 to 0.01	100
CRK		Metal Strip	Wide Terminal, Current Sense	1	0612, 0815	1, 5	0.001 to 0.01	50
CST		4-Terminal Metal Strip	High Power, Low Ohmic Current Sense, Input Amplifiers, AEC-Q200 Compliant	1	0612	1	0.0005 to 0.002	100/200
CRF		Metal Strip	High Power, Low Ohmic Low TCR, Low EMF, Current Sense, Input Amplifiers AEC-Q200 Compliant	1/2 to 2	0805 to 2512	1, 5	0.001 to 0.05 and 0 Ohm jumper	50
CRE		Metal Strip	High Power, Low Ohmic Low TCR, Low EMF, Current Sense, Input Amplifiers AEC-Q200 Compliant	2, 3	2512	1	0.001 to 0.009	50
CRA		Metal Strip	High Power, Low Ohmic Low TCR, Low EMF, Current Sense, Input Amplifiers AEC-Q200 Compliant	3	2512	1, 5	0.01 to 0.1	50
CAT/CAY (A, A-AS)		Thick Film Array	Convex, Concave, 2, 4 Resistors, Isolated, A - Automotive Grade, AEC-Q200 Compliant A-AS - Automotive Grade, AEC-Q200 Compliant, Sulfur Resistant	1/32 to 1/16	0402, 0603	1, 5	10 to 1 M and 0 Ohm jumper	200