






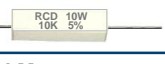










# RESISTORS (Sec. 1 of 3)


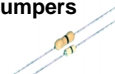














## ‘Through-Hole Type’

Type/ Series	Power (W)	Resistance (Ohms)	Tol (+/-%)	TCR (ppm/°C)	Max. Volts	Body Sizes	Operating Temp (°C)	Product/Application Notes
<b>SIP Networks</b> C,CL,CP RC,VDS 	.4W - 3W	1Ω - 1000MΩ	.1% - 10%	5 - 250	100 - 1KV RC=50V	2-Pin - 20-Pin, SIP	-55°C to +150°C* *200°C Opt.avail	Wide selection. Thin-film, thick-film, voltage divider, R/C Sips.
<b>Custom Networks</b> DSN,DDN,RC 	.25W - 8W	.005Ω - 4GΩ	.01% - 5%	2 - 100	50 - 200	2-Pin - 40-Pin SIP/DIP	-55°C to +150°C	Custom SIP & DIP networks comprised of any combination of resistors, diodes, capacitors and inductors
<b>Precision Wirewound</b> SA,MA,PC,Q 	.05 - 3W	.1Ω - 25MΩ	.005% - 1%	2 - 90	100 - 1200	.25"L - 2.0"L	-55°C to +160°C	Inherent wirewound performance, excellent long-term stability
<b>Power Wirewound</b> 100 Series 	0.5W - 50W	.005Ω - 2MΩ	.005% - 10%	5 - 600	30 - 1500	.162"L - 5.0"L	-55°C to +350°C	Excellent performance, World's widest range. High pulse capability
<b>Miniature Wirewound</b> 200 Series 	1W - 10W	.005Ω - 250KΩ	.01% - 5%	5 - 600	30 - 600	.15"L - 1.04"L	-55°C to +275°C	Miniature wirewound resistors. Significant space savings and performance
<b>Economy Wirewound</b> RW Series 	1W - 10W	.01Ω - 25KΩ	2% - 10%	100 - 600	60 - 700	.39"L - 1.7"L	-55°C to +275°C	Excellent performance at economy prices. Inherent WW stability. Fusing opt.
<b>Alum. Housed WW</b> 600 Series 	5W - 1000W	.005Ω - 1MΩ	.01% - 10%	5 - 600	160 - 2300	.6"L - 4.5"L	-55°C to +250°C	Heat sink mounted. Wide selection of terminals, incl. lug, ring, male, female, insul. extension wires, 4-terminal
<b>Ceramic Encased</b> PW 	1W - 25W	.05Ω - 1MΩ	.1% - 10%	5 - 600	100 - 700	.59"L - 2.55"L	-55°C to +235°C (+275°C avail.)	Fireproof, general purpose and semi-precision applications. Fusing models available
<b>Vertical Mount</b> PV,PVH,PWV 	2W - 25W	.001Ω - 1MΩ	.05% - 10%	5 - 1200	80 - 600	.8"H - 3.02"H	-55°C to +220°C (+275°C avail.)	2-Terminal and 4-Terminal design. Excellent medium power space savings. Fusing options available
<b>Ceramic(Radial Leads)</b> PWLL,PWH 	5W - 50W	.1Ω - 150KΩ	.5% - 10%	100 - 600	350 - 1000	1.1"L - 3.62"L	-55°C to +235°C (+275°C avail.)	Low cost, ceramic fireproof construction. Fast-on terminals avail on larger sizes
<b>Tubular Wirewound</b> T Series 	12W - 1300W	.1Ω - 200KΩ	.1% - 10%	20 - 400	Consult factory	1.76"L - 25.6"L	-55°C to +350°C	High wattage for low cost. Wide range of custom terminations available
<b>Power Edgewound</b> EW 	75W - 2000W	.1Ω - 200Ω	1% - 10%	50 - 500	Consult factory	3.5"L - 25.6"L	-55°C to +350°C	Heavy-duty edgewound design utilizes ribbon element for highest power
<b>Flat Power Wound</b> FW,FWE 	40W - 450W	.1Ω - 35KΩ	1% - 10%	260 - 400	Consult factory	3.26"L - 13.11"L	-55°C to +350°C	Flat construction allows stackable mounting configurations and increased power ratings
<b>Ultra-Low Ohm</b> ULV,LV3 	2W - 20W	.002Ω - .2Ω	.5% - 10%	50 - 1600	20 - 40A	.51"L - 2.55"L	-55°C to +275°C	Fireproof, low-inductance welded construction. LV3 = Low cost molded 3-watt
<b>4-Terminal, Precision</b> LVF,LVH 	2W - 20W	.0005Ω - 200KΩ	.1% - 10%	5 - 600	100 - 600	.59"L - 2.55"L	-55°C to +275°C	Prec. current sensing element potted inside a ceramic case for improved durability
<b>Precision Low-Ohm</b> LOR Series 	3W - 5W	.0025Ω - .25Ω	.5% - 10%	25 - 600	25 - 40A	.58"L - .88"L	-55°C to +275°C	Choice of 2 and 4-terminal designs. Non-inductive, low TC metal element design

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# RESISTORS (Sec. 2 of 3)














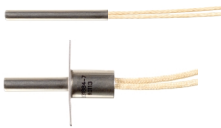
## ‘Through-Hole Type’

Type/ Series	Power (W)	Resistance (Ohms)	Tol (+/-%)	TCR (ppm/°C)	Max. Volts	Body Sizes	Operating Temp (°C)	Product/Application Notes
<b>Open-Air Low Value</b> OA Series 	1W - 5W	.001Ω - .1Ω	1% - 10%	20 - 900	--	.4" L - .8" L	-55°C to +275°C*	Cost-effective performance for a wide range of current/ sense shunt applications
<b>Zero-Ohm Jumpers</b> ZJ, Z Series 	2A - 25A	--	--	--	--	.134" L - .335" L (12-26AWG)	-55°C to +155°C	Developed for use as inter- connection devices on PCB. New! 25Amp (ZJ1206) chip
<b>Resistance Standards</b> A Series 	1W	.001Ω - 1TΩ	.0005 - .01%	3 - 200	--	4.5" L - 5.5" L	0°C to +40°C	Exceptional performance and excellent long-term stability
<b>Ultra Precision</b> HP, VS Series 	.125W - 2W	10Ω - 10MΩ	.001% - 1%	.25 - 50	250 - 500	.32" L - 1.2" L	-55°C to +175°C	World's best TCR! VS2 is RNC90Y equivalent Unsurpassed performance meets or exceeds MIL55182
<b>Hermetic Sealed</b> HM Series 	.1W - 2W	10Ω - 10MΩ	.01% - 1%	5 - 50	200 - 500	.272" L - 1.102" L	-65°C to +175°C	Hermetic sealed metal film resistors are designed for severe environments
<b>Precision Metal Film</b> PMF, MF 	1/20W - 2W	1Ω - 22.1MΩ	.01% - 1%	5 - 100	200 - 500	.15" L - 1.11" L	-55°C to +175°C PMF= +150°C	MF is precision metal film. PMF is ultra-precision
<b>Standard Metal Film</b> GP, GPS, FP, FPS 	.125W - 2W	1Ω - 22.1MΩ	.1% - 5%	25 - 100	200 - 500	.134" L - .59" L	-55°C to +160°C	General purpose metal film. GP is standard, FP is flame- proof, GPS & FPS are mini size
<b>Metal Oxide</b> RSF, RMF 	.5W - 9W	.1Ω - 1MΩ	1% - 5%	100 - 200	300 - 800	.25" L - 2.08" L	-55°C to +235°C RMF= +200°C	RSF is standard metal oxide, RMF is miniature size
<b>Miniature Power Film</b> MG, FS 	.5W - 3W	.1Ω - 1MΩ	.1% - 5%	25 - 200	200 - 500	.15" L - .58" L	-55°C to +175°C FS= +200°C	Miniature size enables significant space savings
<b>Carbon Film</b> CF Series 	.125W - 3W	1Ω - 100MΩ	2% - 10%	200 - 1000	200 - 650	.145" L - .71" L	-55°C to +155°C	Designed for general purpose applications. New miniature sizes and high voltage version available
<b>High Voltage</b> RG, RH, RP 	.125W - 20W	1KΩ - 10TΩ	.05% - 5%	15 - 1500	300 - 90K	.134" L 7.48" L	-55°C to +155°C RP= +225°C	RG is semi-precision. RH is high precision RP is professional grade
<b>High Resistance Film</b> UHV Series 	1W - 2W	1KΩ - 200TΩ	1% - 10%	25 - 3500	1K - 12KV	1.1" L - 1.875" L	-55°C to +150°C (UHV3 -40°C to +100°C)	Suited for high ohmic and voltage applications from general purpose to hi-rel
<b>High Surge Comp</b> PCN Series 	.25W - 400W	1Ω - 10MΩ	5% - 20%	.15%/ °C Max.	250 - 2600	.25" L - 17.72" L	-55°C to +125/230°C	Solid bulk composition enables high pulse/surge Typical applications include snubber, lightning, in-rush
<b>Radial Lead MegOhm</b> BC Series 	.25W - .75W	300KΩ - 1GΩ	.1% - 1%	25 - 350	400 - 500	.29" L - .31" L	-55°C to +175°C	Designed for precision high megohm requirements where space is at premium
<b>Micro-Miniature Film</b> MFA Series 	.05W - .1W	1Ω - 10MΩ	2% - 10%	25 - 250	50 - 100	.075" L - .13" L	-55°C to +125°C	World's smallest axial-lead resistors! Originally devel- oped for aerospace
<b>TO-style Power Film</b> MP, HDP 	10W - 140W	.01Ω - 56KΩ	.1% - 5%	25 - 250	300 - 500	TO126, TO220, TO247	-55°C to +155°C HDP= +200°C	Heat-sink mounted. Excellent high frequency performance

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# RESISTORS (Sec. 3 of 3)








## ‘Through-Hole Type’

Type/ Series	Power (W)	Resistance (Ohms)	Tol (+/-%)	TCR (ppm/°C)	Max. Volts	Body Sizes	Operating Temp (°C)	Product/Application Notes
<b>High Power/Voltage</b> SR Series 	2W - 250W	50KΩ - 5TΩ	.1 - 20%	25 - 600	400KV	2.05"L - 39.37"L	-25°C to +125°C (+225°C avail)	High voltage and/or high power applications. Thick-film construction. Ferrule terminals for clip mounting
<b>Failsafe Fusible</b> LF2 Series 	2W	.01Ω - 10KΩ	.01 - 5%	10 - 200	1KV pulse	1.04"L x .265"W x .450"H	-55°C to +105°C	Withstands lightning surges and power crosses. Meets UL497A, Bellcore GR1089
<b>Fusible</b> BW, FR 	.125W - 5.5W	.1Ω - 24KΩ	0.1 - 5%	10 - 200	200 - 350	.145"L - .98"L	-55°C to +175°C BW= +165°C	BW is low cost, general purpose fusible film resistor. FR is precision/custom fuse resistor
<b>Precision Failsafe</b> TF Series 	.5W - 60W	.005Ω - 1MΩ	.1 - 10%	5 - 100	40 - 400	.435"L - 1.88"L	-55°C to +125°C (+225°C avail.)	Available in both axial and vertical mount packages. Precision thermal linked design offers best safety
<b>High Surge</b> PR Series 	.125W - 5W	.1Ω - 200KΩ	1 - 10%	20 - 200	150 - 750	.145"L - .875"L	-55°C to +150°C (+275°C avail.)	High surge capability. Excellent replacement for carbon comp. resistors
<b>Carbon Composition</b> CC Series 	.25W - 1W	1Ω - 22MΩ	1 - 10%	.15%/°C	250 - 500	.25"L - .562"L	-55°C to +150°C	High surge/ high pulse capability. Low inductance/ high freq. performance
<b>High Voltage Carbon</b> Series CFZ 	.125W - 3W	1KΩ - 22MΩ	2 - 10%	.05 to 15%/°C	250 - 800	.145"L - .71"L	-55°C to +165°C	Low-cost alternative for many carbon composition applications
<b>Planar</b> TP,TPS Series 	3W - 100W	.5Ω - 1MΩ	.5% - 20%	100 - 200	200 - 500	.512"L - 4.42"L	-55°C to +275°C	High power density in light-weight package design. TP has ceramic substrate TPS has metal substrate
<b>Film Temp. Sensitive</b> LP Series 	.125W - .25W	1.5Ω - 100KΩ	2% - 10%	+150 to +7000	Consult factory	.14"L - .27"L	-55°C to +155°C	Nearly linear positive T.C.'s Wide range of R/T slopes High stability at economy prices
<b>Econ. Platinum Temp.</b> LPT Series 	.0625W	10Ω - 500Ω	.1 - 2%	+3500	Consult factory	.157"L	-55°C to +300°C	Platinum reliability and performance at low cost. Excellent linearity and fast response time.
<b>WW Temp. Sensitive</b> ATB,ATS,PTB 	.05W - 10W	1Ω - 600KΩ	.1% - 1%	+80 to +6000	Consult factory	.25"L - 1.78"L	-55°C to +175°C (ATS= +350°C)	Precision wirewound temp sensors. ATB & ATS have axial leads. PTB is a radial lead design
<b>Temp. RTD Elements</b> PTC Series 	--	1Ω - 1KΩ	.1% - 1%	+3850 to +6720	--	.575"L - .675"L	-55°C to +260/500°C	Economical RTD elements Platinum, Nickel, and Nickel iron alloys. Inherent wirewound stability
<b>Thin-Film Temp.</b> PT Series 	--	100Ω - 2KΩ	.06% - .6%	3850	--	.1"L - .675"L	-55°C to +200/640°C	Precision performance, excellent stability, fast response. Wide selection. Meets DIN 43760, IEC751
<b>RTD Temp. Probes</b> PTS Series 	--	1Ω - 1KΩ	.1% - 1%	+3850 to +6720	--	.5"L - 18"L	-55°C to +260/500°C	Stainless steel sheaths for severe environmental requirements.

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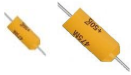

# INDUCTORS

## ‘Through-Hole Type’

Type/ Series	Inductance ( $\mu$ H)	Tol. (+/-%)	Q Min.	SRF Min. (MHz)	DCR Max. (Ohms)	Rated Current (mA/DC)	Body Sizes	Product/Application Notes
<b>Epoxy Coated</b> AL SERIES 	.1 - 2200	5 - 20%	30 - 80	1 - 525	.06 - 72	24 - 2000	.125"L- .35"L	Excellent general purpose inductor. Widest selection in the industry. Optional improved Q & SRF levels
<b>Molded</b> P Series 	.1 - 1000	3 - 20%	25 - 75	1.7 - 680	.03 - 72	28 - 2450	.25"L- .375"L	Precision performance per MIL-C-15305. Superior environmental protection
<b>Molded Shielded</b> PF Series 	.22 - 10,000	3 - 20%	40 - 60	0.47 - 250	.067 - 137	24 - 1100	.41"L	Electromagnetic shielding MIL- grade performance at commercial prices.
<b>Radial</b> FRL,R,RS 	.82 - 100,000	5 - 20%	25 - 70	0.1 - 105	.01 - 300	12 - 7400	.236" to .433"dia.	Space-saving design. FRL is flat rectangular R is low-cost cylindrical RS is shielded cylindrical
<b>Radial High Current</b> CH Series 	5 - 270	10%	--	1 - 40	.012 - .095	3A - 5A	.875"L- 1.625"L	Low-cost 3 Amp and 5 Amp models are standard (up to 20 Amp available)
<b>Axial High Current</b> CA Series 	5 - 680	10%	--	0.7 - 25	.02 - .74	1A - 3A	.875"L- 1.125"L	Increased current and insulation options are available.
<b>Custom Inductive Products</b> 	.01 - 2H	1 - 20%	10 - 100	0.1 - 6GHz	Consult factory	10mA to 20A	Consult factory	Toroids, wideband chokes, bead cores, transformers, variable coils, etc.

# CAPACITORS

## ‘Through-Hole Type’

Type/ Series	Voltage (V)	Capacitance (pF, $\mu$ F)	Tol (+/-%)	Dissipation Factor (25°C)	Body Sizes	Application Notes
<b>Multilayer Ceramic, Axial Lead</b> CEA Series 	25 - 200	0.5pF - 1.2 $\mu$ F	1 - 20%	.15% - 4%	.149"L - .2"L	Conformal coated, low-cost. COG/NPO, X7R, Z5U/Y5V
<b>Multilayer Ceramic, Radial Lead</b> CER Series 	25 - 100	0.47pF - 10 $\mu$ F	1 - 20%	.15% - 4%	.15"L - .492"L	Conformal coated, space saving radial lead design. 7 standard sizes COG, (NPO), X7R, Z5U and Y5V
<b>Tantalum, Radial Lead</b> TR Series 	3 - 50	.047 $\mu$ F - 680 $\mu$ F	5 - 20%	4% - 8%	.177" Dia. - .375" Dia.	Conformal coated space saving design. 6 standard sizes
<b>Tantalum, Axial Lead</b> TA Series 	2 - 50	0.1 $\mu$ F - 330 $\mu$ F	5 - 20%	3% - 10%	.26"L - .550"L	Solid Tantalum molded in flame retardant epoxy resin. Wide range
<b>High Voltage Disc</b> CHV Series 	2K - 15K	1pF - .033 $\mu$ F	5 - 20%	.1% - 5%	7 - 25mm Dia.	Wide range of HV caps up to 15KV at low cost

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# DELAY LINES

## 'Through-Hole Type'

Type/ Series	Tap Config.	Total Delay (nSec)	Package Size	LOGIC	Delay Tol. (%)	Product/Application Notes
<b>Active (Digital) Single Delay</b> A01,SA0801 	Single Output	5 - 1000nS	14-Pin DIP 8-Pin DIP 8-Pin SIP	TTL, Fast TTL, HCMOS, FACT	5 - 10%	All inputs and outputs are schottky-type and require no additional components to achieve specified delays
<b>Active (Digital) Multiple Delay</b> A02,A03,A04 	Untapped dual, triple, quadruple independent delays	5 - 500nS	8-Pin DIP 14-Pin DIP	TTL, Fast TTL, HCMOS, FACT	5 - 10%	Same as A01 Series except A02 features two isolated delays; A03 three delays, and A04 has four delays
<b>Active (Digital) Delay, 5 Tap</b> A0805,A1405, SA0805 	5-tap	5 - 1000nS	8-Pin DIP 14-Pin DIP 8-Pin SIP	TTL, Fast TTL, HCMOS, FACT	5%	Designed to provide precise tap delays with all the necessary drive and pick-off circuitry. Schottky-type
<b>Active (Digital) Delay, 10 Tap</b> A1410,SA1410 	10-tap	10 - 1000nS	14-Pin DIP 14-Pin SIP	TTL, Fast TTL, HCMOS, FACT	5%	Designed to provide precise tap delays with all the necessary drive and pick-off circuitry. Schottky-type
<b>Active ECL Delay</b> E101,E102,E103,E1001, E1004,E1008 	Single, dual, triple, and quadruple outputs. 5 or 8 taps	5 - 500nS	16-Pin DIP 24-Pin DIP	ECL10K ECL10KH ECL100K	5%	Industry's widest range of single, multi, and tapped ECL delay lines
<b>Passive, Single Output</b> P01S,P01,P0801 S01,S02,S03,S04 	Single Output	0.1 - 1000nS	4-pin DIP 8-pin DIP 14-pin DIP 3-pin SIP 4-pin SIP	Passive TTL and DTL compatible	5%	Lumped constant design per MIL-D-23859, incorporating hi-performance inductors and capacitors in a molded case
<b>Passive, (Analog) Delay, 5 Tap</b> SP05 Series 	5-tap	5 - 100nS	7-pin SIP	Passive TTL and DTL compatible	5%	Space-saving package
<b>Passive, (Analog) Delay, 10 Tap</b> P1410,SP10 	10-tap	10 - 2000nS	14-pin DIP 14-pin SIP	Passive TTL and DTL compatible	5%	Lumped constant design per MIL-D-23859, incorporating hi-performance inductors and capacitors in a molded case
<b>Passive, (Analog) Delay, 20 Tap</b> P2420 Series 	20-tap	20 - 5000nS	24-pin DIP	Passive TTL and DTL compatible	5%	Lumped constant design features 10:1 Delay to Rise Time ratio (20:1 available)
<b>Programmable Delay</b> TT, EC Series 	3 Bit, 4 Bit 6 Bit & 8 Bit	0.5 - 100nS	16, 32, 48 and 64-Pin DIP	ECL 10K,100K, Fast TTL	--	Industry's widest selection! Consult RCD's delay line specialist for more info.

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