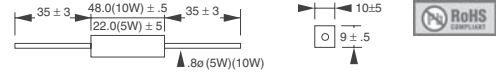


## 5 and 10 Watt Wirewound and Metal Oxide Film Rectangular Resistors, 5%

**Axial Lead Type • Operating Temperature Range:** -55°C ~ 155°C

• Exceptionally small and sturdy; mechanically safe. Excellent electrical characteristics. • The materials used and the construction techniques ensure excellent flame resistance, arc resistance and moisture resistance as well as self-extinguishing capabilities. They will withstand the most rigorous loading test. • Applicable specifications: EIA RS-344 and EIA RC649.

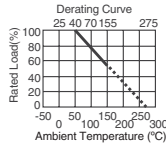


0.30	0.56	1.0	1.8	3.3	5.6	10	18	33	56	100	180	330	560	1.0K	1.8K
0.33	0.62	1.1	2.0	3.6	6.2	11	20	36	62	110	200	360	620	1.1K	2.0K
0.39	0.68	1.2	2.2	3.9	6.8	12	22	39	68	120	220	390	680	1.2K	
0.43	0.75	1.3	2.4	4.3	7.5	13	24	43	75	130	240	430	750	1.3K	
0.47	0.82	1.5	2.7	4.7	8.2	15	27	47	82	150	270	470	820	1.5K	
0.51	0.91	1.6	3.0	5.1	9.1	16	30	51	91	160	300	510	910	1.6K	

1.0	1.8	3.3	5.6	10	18	33	56	100	180	330	560	1.0K	1.8K
1.1	2.0	3.6	6.2	11	20	36	62	110	200	360	620	1.1K	2.0K
1.2	2.2	3.9	6.8	12	22	39	68	120	220	390	680	1.2K	2.2K
1.3	2.4	4.3	7.5	13	24	43	75	130	240	430	750	1.3K	2.4K
1.5	2.7	4.7	8.2	15	27	47	82	150	270	470	820	1.5K	2.7K
1.6	3.0	5.1	9.1	16	30	51	91	160	300	510	910	1.6K	3.0K

Description	Digi-Key Part No.†	Pricing					
		1	10	100	1,000	5,000	10,000
5 Watt, 5% Wirewound Rectangular Resistors, Bulk Package, 0.30Ω - 180Ω	(Value)W-5-ND	.28	2.35	18.74	112.43	100.73/M	89.01/M
5 Watt, 5% Metal Oxide Film Rectangular Resistors, Bulk Package, 200Ω - 2.0KΩ	(Value)W-5-ND	.28	2.35	18.74	112.43	100.73/M	89.01/M
10 Watt, 5% Wirewound Rectangular Resistors, Bulk Package, 1.0Ω - 270Ω	(Value)W-10-ND	.42	3.44	27.55	165.29	148.07/M	130.86/M
10 Watt, 5% Metal Oxide Film Rectangular Resistors, Bulk Package, 300Ω - 3.0KΩ	(Value)W-10-ND	.42	3.44	27.55	165.29	148.07/M	130.86/M

† For complete part number, substitute the value from Standard Resistor Values chart for (Value).



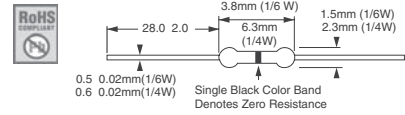
RS105-ND 0.30Ω - 0.91Ω - 5 each 60 Resistors .....	19.18
RS205-ND 1.0Ω - 9.1Ω - 4 each 96 Resistors .....	26.39
RS305-ND 10Ω - 91Ω - 4 each 96 Resistors.....	26.39
RS405-ND 100Ω - 2.0KΩ - 3 each 96 Resistors.....	26.39

Two each of all 10 watt standard resistor values listed above. A total of 168 resistors.	
RS110-ND.....	58.42

## Zero Ohm Jumper Wires

**Applications:** Generally they are used for the following reasons: • Inability to connect two points on a PC Board due to other circuit paths which must be crossed over. • An After-the-Fact design change that requires new point connections. • Circuit tuning by changing point connections.

**Specifications:** • Maximum Resistance: 0.004Ω on 1/6 watt, 0.003Ω on 1/4 watt • Typical Resistance: 0.002Ω on both • Lead Material: tin-plated copper • Body Material: electrical grade, high performance molding compound • Minimum Insulation Resistance - Dry: 10,000MΩ, Wet: 100MΩ • Minimum Dielectric Withstanding Voltage - Atmospheric: 500V RMS, Reduced: 325V RMS • Insulation Flammability: resistor-insulation is self extinguishing within 10 seconds after externally applied flame is removed • Current Rating: 25 Amps at 25°C, derating to 0 Amps at 150°C.



Description	Digi-Key Part No.	Pricing					
		5	200	1,000	5,000	10,000	50,000
1/6 Watt, Zerohm Jumper, Bulk Package	0.0EBK-ND	.20	6.34	12.73	11.68/M	10.58/M	9.77/M
1/6 Watt, Zerohm Jumper, Tape and Reel (5,000 Pieces/Reel)	0.0ETR-ND†	—	—	—	14.37/M	13.52/M	11.06/M
1/4 Watt, Zerohm Jumper, Bulk Package	0.0QBK-ND	.28	5.18	10.54	9.70/M	8.80/M	8.12/M
1/4 Watt, Zerohm Jumper, Tape and Reel (5,000 Pieces/Reel)	0.0QTR-ND†	—	—	—	11.36/M	10.68/M	8.77/M

† Tape and Reel

## 5% Carbon Film Resistors Available In 1/6, 1/4 and 1/2 Watt

### CFR Series

**Characteristics:** • Operating Temperature Range: -55°C ~ 155°C • Solderability: 235°C for 5±0.5 seconds • Short Time Overload: 2.5 Times RCW V for 5 seconds • Resistance To Solvent: Trichroethane for 1 minute with ultrasonic • Pulse Overload: 4 times RCW V 10,000 cycles (1 second on, 25 seconds off)

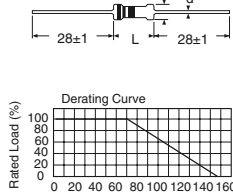
1.0	1.6	2.7	4.3	6.8	11	18	30	47	75	120	200	330	510	820	1.3K	2.2K	3.6K	5.6K	9.1K	15K	24K	39K	62K	100K	160K	270K	430K	680K	1.1M	1.8M	3.0M	4.7M	7.5M
1.1	1.8	3.0	4.7	7.5	12	20	33	51	82	130	220	360	560	910	1.5K	2.4K	3.9K	6.2K	10K	16K	27K	43K	68K	110K	180K	300K	470K	750K	1.2M	2.0M	3.3M	5.1M	8.2M
1.2	2.0	3.3	5.1	8.2	13	22	36	56	91	150	240	390	620	1.0K	1.6K	2.7K	4.3K	6.8K	11K	18K	30K	47K	75K	120K	200K	330K	510K	820K	1.3M	2.2M	3.6M	5.6M	9.1M
1.3	2.2	3.6	5.6	9.1	15	24	39	62	100	160	270	430	680	1.1K	1.8K	3.0K	4.7K	7.5K	12K	20K	33K	51K	82K	130K	220K	360K	560K	910K	1.5M	2.4M	3.9M	6.2M	10M
1.5	2.4	3.9	6.2	10	16	27	43	68	110	180	300	470	750	1.2K	2.0K	3.3K	5.1K	8.2K	13K	22K	36K	56K	91K	150K	240K	390K	620K	1.0M	1.6M	2.7M	4.3M	6.8M	

Type (Power Rating)	L	Dimensions - mm D	d	Max. Working Voltage	Max. Overload Voltage	Dielectric Withstanding Voltage	Rated Ambient Temperature	Temperature Cycling	Resistance Range	Resistance Tolerance
1/6 Watt ‡	3.3 ± 0.4	1.8 ± 0.3	0.5 ± 0.05	150V	300V	300V	70°C	-55°C - 155°C	1.0Ω - 10MΩ	±5%
1/4 Watt	6.3 ± 0.5	2.3 ± 0.3	0.6 ± 0.05	250V	500V	500V	70°C	-55°C - 155°C	1.0Ω - 10MΩ	±5%
1/2 Watt	9.0 ± 0.5	3.2 ± 0.5	0.6 ± 0.05	350V	700V	500V	70°C	-55°C - 155°C	1.0Ω - 10MΩ	±5%

‡ Power rating at 70°C = 1/6W

### Features:

- Industry's lowest cost
- Available in 1/6, 1/4 and 1/2 watt; packaged in bulk or tape/reel (1/2 watt in bulk only)
- Exceeds carbon comp MIL-R-11 performance
- Standard tolerance: ±5%
- Exceptional long-term stability



Description	Digi-Key Part No.†	Pricing					
		5	200	1,000	5,000	10,000	50,000
1/6 Watt, 5% Carbon Film Resistors, Bulk Package	(Value)EBK-ND	.26	4.23	12.26	11.00/M	10.15/M	9.31/M
1/6 Watt, 5% Carbon Film Resistors, Tape and Reel (5,000 pieces/reel - Order in multiples of 5,000)	(Value)ETR-ND§	—	—	—	13.75/M	12.69/M	10.15/M
1/4 Watt, 5% Carbon Film Resistors, Bulk Package	(Value)QBK-ND	.28	3.95	8.84	8.40/M	7.81/M	6.34/M
1/4 Watt, 5% Carbon Film Resistors, Tape and Reel (5,000 pieces/reel - Order in multiples of 5,000)	(Value)QTR-ND§	—	—	—	9.11/M	8.41/M	6.73/M
1/2 Watt, 5% Carbon Film Resistors, Bulk Package	(Value)H-ND	.25	3.65	11.87	10.96/M	10.05/M	9.13/M

† "E" = Sixth Watt; "Q" = Quarter Watt; "H" = Half Watt. Please be sure to specify. Half watt available in bulk package only.  
‡ For complete part number, substitute the value from Standard Resistor Values chart for (Value). § Tape and Reel

### Digi-Key® 1/6 Watt Resistor Assortment

RSE200-ND 200 each of all standard values 5%, 1/6 watt carbon film resistors in the series 1.0Ω - 10MΩ (33,800 total pieces).....	327.53
RS112-ND Set of 5 each of 73 standard 5%, 1/6 watt carbon film resistors in the series 1.0Ω, 1.2Ω, 1.5Ω, 1.8Ω, 2.2Ω, etc., through 1.0MΩ (365 total pieces).....	13.58
RS212-ND Set of 5 each of the 72 standard 5%, 1/6 watt carbon film resistors in the series 1.1Ω, 1.3Ω, 1.6Ω, 2.0Ω, 2.4Ω, etc., through 910KΩ (360 total pieces) .....	13.61

### Digi-Key® 1/4 Watt Resistor Assortment

RSQ200-ND 200 each of all standard values 5%, 1/4 watt carbon film resistors in the series 1.0Ω - 10MΩ (33,800 total pieces).....	191.39
RS125-ND Set of 5 each of 73 standard 5%, 1/4 watt carbon film resistors in the series 1.0Ω, 1.2Ω, 1.5Ω, 1.8Ω, 2.2Ω, etc., through 1.0MΩ (365 total pieces).....	11.97
RS225-ND Set of 5 each of the 72 standard 5%, 1/4 watt carbon film resistors in the series 1.1Ω, 1.3Ω, 1.6Ω, 2.0Ω, 2.4Ω, etc., through 910KΩ (360 total pieces) .....	11.97

### Digi-Key® 1/2 Watt Resistor Assortment

RSH200-ND 200 each of all standard values 5%, 1/2 watt carbon film resistors in the series 1.0Ω - 10MΩ (33,800 total pieces).....	268.27
RS150-ND Set of 5 each of 73 standard 5%, 1/2 watt carbon film resistors in the series 1.0Ω, 1.2Ω, 1.5Ω, 1.8Ω, 2.2Ω, etc., through 1.0MΩ (365 total pieces).....	13.57
RS250-ND Set of 5 each of the 72 standard 5%, 1/2 watt carbon film resistors in the series 1.1Ω, 1.3Ω, 1.6Ω, 2.0Ω, 2.4Ω, etc., through 910KΩ (360 total pieces) .....	13.57

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