

PANASONIC® ERA 0603/0805

1% METAL FILM CHIP RESISTORS

Surface Mount — Available In 1/16 and 1/10 Watt

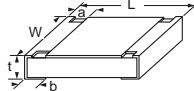
Standard Resistor Values

See below for complete part numbers when ordering.

560	820	1.2K	1.8K	2.7K	3.9K	5.6K	8.2K	12K	18K	27K	39K	56K	82K
620	910	1.3K	2.0K	3.0K	4.3K	6.2K	9.1K	13K	20K	30K	43K	62K	91K
680	1.0K	1.5K	2.2K	3.3K	4.7K	6.8K	10K	15K	22K	33K	47K	68K	100K
750	1.1K	1.6K	2.4K	3.6K	5.1K	7.5K	11K	16K	24K	36K	51K	75K	

Features:

- High reliability
- Low TCR and current noise
- Excellent non-linearity



Type (Power Rating)	Type	Max. RCWV	Max. Overload Voltage	Dimensions (mm)					Temperature Coefficient	Panasonic Part No.
				L	W	t	a	b		
1/16 Watt	0603	75V	150V	1.60	0.80	0.45	0.30	0.30	±25ppm/°C	ERA-3YE
1/10 Watt	0805	100V	200V	2.00	1.25	0.50	0.40	0.40	±25ppm/°C	ERA-6YE

Description	Value Range	Digi-Key Part No.	Pricing							Panasonic Part Number		
			10	50	200	1M	5M	10M	25M		50M	100M
1/16 W, 0603, .1% Chip Resistors; Tape & Reel (5000/pkg.)	560 - 33K	P + Value + "YTR-ND"	—	—	—	—	192.64/M	154.12/M	130.04/M	120.40/M	115.59/M	ERA-3YEBxxxV
1/16 W, 0603, .1% Chip Resistors; Tape (200/pkg.)	560 - 33K	P + Value + "YCT-ND"	9.53	30.10	75.24	225.72	—	—	—	—	—	ERA-3YEBxxx
1/10 W, 0805, .1% Chip Resistors; Tape & Reel (5000/pkg.)	560 - 100K	P + Value + "ZTR-ND"	—	—	—	—	192.64/M	154.12/M	130.04/M	120.40/M	115.59/M	ERA-6YEBxxxV
1/10 W, 0805, .1% Chip Resistors; Tape (200/pkg.)	560 - 100K	P + Value + "ZCT-ND"	9.53	30.10	75.24	225.72	—	—	—	—	—	ERA-6YEBxxx

YAGEO 5% CARBON FILM RESISTORS

Available In 1/8, 1/4 and 1/2 Watt

Standard Resistor Values

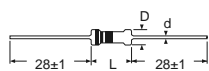
See below for complete part numbers when ordering.

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

Characteristics

Terminal Strength	Soldering	Temperature Change	Vibration	Moisture Resistance	Load Life	Dielectric Strength	Insulation Resistance	Short-Time Overload	Voltage Coefficient	Solvents Resistance
0.6mm load 10N (1kg); 10s Δ Rmax. 0.25% + 0.05Ω	2s 230°C 0.5% activated flux Δ Rmax. 0.25% + 0.25Ω	½ hr. @ -55°C, ½ hr. @ +155°C; 5 cycles; Δ Rmax. 0.25% + 0.25Ω	1.5mm displacement @ 10 to 500 Hz; Δ Rmax. 0.25% + 0.05Ω	Δ Rmax. ±3%	Δ Rmax. ±2.5%	1000 hrs.; 70°C; Phom or Vmax. Δ Rmax. 1% + 0.05Ω	500Vrms appl. for 1 min.; No breakdown	Room temp., dissipation 6.25x Phom. 10 cycles, 5 sec. on, 45 sec. off; Δ Rmax. 0.25% + 0.05Ω	5 ppm	No damage

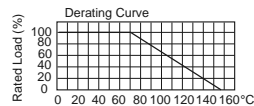
General Specifications



Type (Power Rating)	Dimensions (mm)			Max. Working Voltage	Max. Overload Voltage	Rated Ambient Temperature	Temperature Cycling	Resistance Range	Resistance Tolerance
	L	D	d						
1/8 Watt	3.8 ± 0.2	1.8 ± 0.2	0.45	200V	400V	70°C	-55°C to +155°C	1.0Ω to 10 MΩ	±5%
1/4 Watt	6.5 ± 0.5	2.3 ± 0.3	0.60	250V	500V	70°C	-55°C to +155°C	1.0Ω to 10 MΩ	±5%
1/2 Watt	9.5 ± 0.5	3.2 ± 0.5	0.60	350V	700V	70°C	-55°C to +155°C	1.0Ω to 10 MΩ	±5%

Features

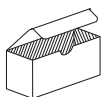
- Industry's lowest cost!
- Available in 1/8, 1/4, 1/2 watt; packaged in bulk or tape/reel (except 1/2 watt)
- Exceeds carbon comp MIL-R-11 performance
- Standard tolerance: ±5%
- Exceptional long-term stability



Description	Digi-Key Part No.	Pricing					
		5	200	1M	5M	10M	50M
1/8 Watt, 5% Carbon Film Resistors Bulk Package	Value + "E" + "BK-ND" (i.e. 1.0EBK-ND)	.28	4.70	13.63	12.22/M	11.28/M	10.34/M
1/8 Watt, 5% Carbon Film Resistors — Tape and Reel (5,000 pcs./reel — Order in multiples of 5,000)	Value + "E" + "TR-ND" (i.e. 1.0ETR-ND)	—	—	—	14.95/M	13.80/M	11.04/M
1/4 Watt, 5% Carbon Film Resistors Bulk Package	Value + "Q" + "BK-ND" (i.e. 1.0QBK-ND)	.28	3.89	8.70	8.27/M	7.69/M	6.24/M
1/4 Watt, 5% Carbon Film Resistors — Tape and Reel (5,000 pcs./reel — Order in multiples of 5,000)	Value + "Q" + "TR-ND" (i.e. 1.0QTR-ND)	—	—	—	8.94/M	8.25/M	6.60/M
1/2 Watt, 5% Carbon Film Resistors Bulk Package	Value + "H" + "ND" (i.e. 1.0H-ND)	.27	3.96	12.87	11.88/M	10.89/M	9.90/M

"E" = Eighth Watt; "Q" = Quarter Watt; "H" = Half Watt. Please be sure to specify. Half watt available in bulk package only.

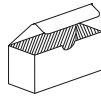
1/8 Watt Resistor Assortment



Set of 5 each of the 72 standard 5% 1/8 watt carbon film resistors in the series 1.0, 1.1, 1.3, 1.6, 2.0, 2.4, etc., through 910 kilohm (360 total pcs.).
RS212-ND.....\$16.99

200 each of all standard values 5% 1/8 watt carbon film resistors in the series 1.0 - 4.7 megohms (32,200 total pieces).
RSE200-ND.....\$399.00

1/4 Watt Resistor Assortment

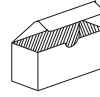


200 each of all standard values 5% 1/4 watt carbon film resistors in the series 1.0 - 4.7 megohms (32,200 total pieces).
RSQ200-ND.....\$219.00

Set of 5 each of 73 standard 5% 1/4 watt carbon film resistors in the series 1.0, 1.2, 1.5, 1.8, 2.2, etc., through 1.0 megohm (365 total pcs.).
RS125-ND.....\$14.95

Set of 5 each of the 72 standard 5% 1/4 watt carbon film resistors in the series 1.1, 1.3, 1.6, 2.0, 2.4, etc., through 910 kilohm (360 total pcs.).
RS225-ND.....\$14.95

1/2 Watt Resistor Assortment



Set of 5 each of the 72 standard 5% 1/2 watt carbon film resistors in the series 1.1, 1.3, 1.6, 2.0, 2.4, etc., through 910 kilohm (360 total pcs.).
RS250-ND.....\$16.95

Set of 5 each of 73 standard 5% 1/2 watt carbon film resistors in the series 1.0, 1.2, 1.5, 1.8, 2.2, etc., through 1.0 megohm (365 total pcs.).
RS150-ND.....\$16.95

200 each of all standard values 5% 1/2 watt carbon film resistors in the series 1.0 - 4.7 megohms (32,200 total pieces).
RSH200-ND.....\$297.00

1-800-344-4539

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