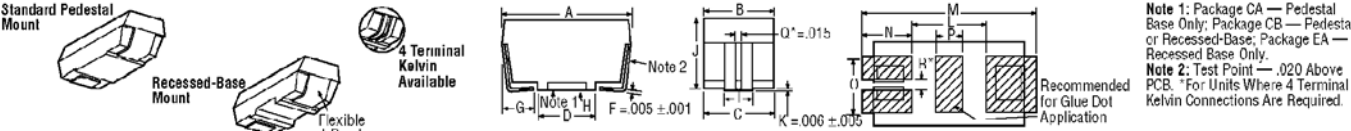


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Surface Mount Power Resistors

RW Series Wirewound and RP Series Power Film Resistors



- Wirewound for Inrush Current Combined with Low Ohmic Values, Down to 0.005 Ω and Close Tolerance
- Power Film for High Ohmic Value and High Wattage
- Four-Wire Kelvin Connections Are Now Available on All Package Sizes
- Flexible J-Bend Terminations

Package	Package Outline Dimensions — In. (mm)										PC Board Land Pattern — In. (mm)				
	A	B	C	D	E	G	H	I	J	L	M	N	O	P	
CA	0.394 ±0.020 (10.008 ±0.508)	0.159 ±0.005 (4.039 ±0.127)	0.156 Ref. (3.962 Ref.)	0.220 ±0.010 (5.588 ±0.254)	—	0.062 Nom. (1.575 Nom.)	0.018 ±0.005 (0.457 ±0.127)	0.078 ±0.010 (1.981 ±0.254)	0.159 ±0.005 (4.038 ±0.127)	0.256 (6.50)	0.524 (13.31)	0.134 (3.40)	0.126 (3.20)	0.060 (1.52)	
CB	0.407 ±0.020 (10.338 ±0.508)	0.226 ±0.005 (5.74 ±0.127)	0.222 Ref. (5.639 Ref.)	0.260 ±0.010 (6.604 ±0.254)	0.160 ±0.020 (4.064 ±0.508)	0.062 Nom. (1.575 Nom.)	0.018 ±0.005 (0.457 ±0.127)	0.084 ±0.013 (2.134 ±0.330)	0.222 ±0.005 (5.639 ±0.127)	0.276 (7.01)	0.537 (13.64)	0.131 (3.33)	0.126 (3.20)	0.093 (2.36)	
EA	0.811 ±0.020 (20.599 ±0.508)	0.273 ±0.005 (6.934 ±0.127)	0.268 Ref. (6.807 Ref.)	0.572 ±0.010 (14.529 ±0.254)	0.448 ±0.020 (11.379 ±0.508)	0.93 Nom. (2.362 Nom.)	0.30 ±0.005 (0.762 ±0.127)	0.143 ±0.012 (3.632 ±0.305)	0.273 ±0.005 (6.934 ±0.127)	0.611 (15.52)	1.000 (25.40)	0.195 (4.95)	0.155 (3.94)	0.093 (2.36)	

RW Series Wirewound Resistors

Stock No.	Mfr.'s Type	Package	Tol.	Resistance (Ohms)	Power (Watts)	TCR (ppm/°C)	EACH		
							1-9	10-99	100-499
296-6040	RW1S5CAR005J	CA	5%	0.005	1.5	—	1.87	1.80	1.70
296-6042	RW1S5CAR010J	CA	5%	0.01	1.5	—	1.41	1.31	1.21
296-6044	RW1S5CAR015J	CA	5%	0.015	1.5	—	1.92	1.86	1.70
296-6046	RW1S5CAR040J	CA	5%	0.04	1.5	—	1.92	1.86	1.70
296-6050	RW1S5CAR150J	CA	5%	0.15	1.5	±90	2.53	2.45	2.23
296-6054	RW1S5CAR500J	CA	5%	0.5	1.5	±90	2.53	2.45	2.23
296-6056	RW1S5CA1R00J	CA	5%	1	1.5	±50	2.53	2.45	2.23
296-6058	RW2S0CBR005J	CB	5%	0.005	2.0	—	1.90	1.84	1.68
296-6060	RW2S0CBR020J	CB	5%	0.02	2.0	—	1.90	1.84	1.68
296-6064	RW2S0CBR050J	CB	5%	0.05	2.0	—	1.90	1.84	1.68
296-6066	RW2S0CBR200J	CB	5%	0.2	2.0	±90	2.42	2.34	2.13
296-6068	RW2S0CBR240J	CB	5%	0.24	2.0	±90	2.41	2.34	2.13
296-6070	RW2S0CBR470J	CB	5%	0.47	2.0	±90	2.42	2.34	2.13
296-6072	RW2S0CB10R0J	CB	5%	10	2.0	±50	2.42	2.34	2.13
296-6074	RW2S0CB20R0J	CB	5%	20	2.0	±20	2.42	2.34	2.13
296-6076	RW2S0CB100RJ	CB	5%	100	2.0	±20	5.13	4.94	4.50

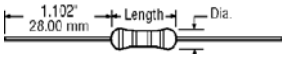
RW Series Wirewound Resistors (continued)

Stock No.	Mfr.'s Type	Package	Tol.	Resistance (Ohms)	Power (Watts)	TCR (ppm/°C)	EACH		
							1-9	10-99	100-499
296-6082	RW3R5EAR050J	EA	5%	0.05	3.5	—	2.42	2.34	2.13
296-6086	RW3R5EAR200J	EA	5%	0.2	3.5	±90	2.58	2.50	2.28
296-6090	RW3R5EA7R50J	EA	5%	7.5	3.5	±50	2.58	2.50	2.28
296-6092	RW3R5EA50R0J	EA	5%	50	3.5	±20	2.58	2.50	2.28
296-6094	RW3R5EA5K00J	EA	5%	5 K	3.5	±20	4.08	3.95	3.60

RP Series Power Film Resistors

296-6098	RP1S5CB11R0J	CB	5%	11	1.5	±250	2.21	2.14	1.95
296-6100	RP1S5CB2K00J	CB	5%	2 K	1.5	±250	2.21	2.14	1.95
296-6106	RP3R0EA49R9J	EA	5%	49.9	3.0	±250	2.74	2.65	2.42
296-6108	RP3R0EA49R9J	EA	5%	499	3.0	±250	2.74	2.65	2.42
296-6110	RP3R0EA1K00J	EA	5%	1 K	3.0	±250	2.74	2.65	2.42
296-6112	RP3R0EA10K0J	EA	5%	10 K	3.0	±250	2.74	2.65	2.42
296-6114	RP3R0EA49K9J	EA	5%	49.9 K	3.0	±250	2.74	2.65	2.42

Carbon Film Resistors



OJ/OK/OL/OM/ON Series

- High Stability, Low Noise Level, Long Life
- Ideal for Applications Requiring a Steady Low Power Drop

Material: Core: High-grade ceramic. **Terminals:** Solder-coated copper lead. **Derating:** Linearly from 100% @ +70°C to 0% @ 155°C. **Electrical Tolerance:** ±5%. **Temperature Coefficient:** 1 Ω to 10 — ±350 ppm/°C; 11 Ω to 91 K — ±450 ppm/°C; 100 K to 1 M — ±700 ppm/°C; 1.1 M to 10 M — ±800 to 1500 ppm/°C.

Series	Dimensions — In. (mm)		Max. Working Voltage	Lead Ga.
	Max. Length	Max. Dia.		
OJ	0.138 (3.5)	0.073 (1.85)	200	24
OK	0.268 (6.8)	0.099 (2.50)	250	22
OL	0.355 (9.0)	0.118 (3.00)	350	22
OM	0.473 (12.0)	0.197 (5.00)	500	20
ON	0.630 (16.0)	0.217 (5.50)	500	20

OJ Series

Stock No.	Mfr.'s Type	Ohms	Watts	EACH		
				1-9	10-99	100-499
296-6200	OJ1005	10	0.125	.10	.08	.06
296-6202	OJ2705	27	0.125	.10	.08	.06
296-6204	OJ4705	47	0.125	.10	.08	.06
296-6206	OJ2215	220	0.125	.10	.08	.06
296-6208	OJ2715	270	0.125	.10	.08	.06
296-6210	OJ3315	330	0.125	.10	.08	.06
296-6212	OJ4715	470	0.125	.10	.08	.06
296-6214	OJ1025	1000	0.125	.10	.08	.06
296-6216	OJ1525	1500	0.125	.10	.08	.06
296-6218	OJ2225	2200	0.125	.10	.08	.06
296-6220	OJ2725	2700	0.125	.10	.08	.06
296-6222	OJ4725	4700	0.125	.10	.08	.06
296-6224	OJ1035	10000	0.125	.10	.08	.06
296-6226	OJ1535	15000	0.125	.10	.08	.06
296-6228	OJ2735	27000	0.125	.10	.08	.06
296-6230	OJ4735	47000	0.125	.10	.08	.06
296-6232	OJ1045	100000	0.125	.10	.08	.06
296-6234	OJ2245	220000	0.125	.10	.08	.06
296-6236	OJ4745	470000	0.125	.10	.08	.06

OK Series

296-6300	OK1005	10	0.250	.09	.06	.05
296-6302	OK2705	27	0.250	.09	.06	.05

OK Series (continued)

Stock No.	Mfr.'s Type	Ohms	Watts	EACH		
				1-9	10-99	100-499
296-6304	OK4705	47	0.250	.09	.06	.05
296-6306	OK2215	220	0.250	.09	.06	.05
296-6308	OK2715	270	0.250	.09	.06	.05
296-6310	OK3315	330	0.250	.09	.06	.05
296-6312	OK4715	470	0.250	.09	.06	.05
296-6314	OK1025	1000	0.250	.09	.06	.05
296-6316	OK1525	1500	0.250	.09	.06	.05
296-6318	OK2225	2200	0.250	.09	.06	.05
296-6320	OK2725	2700	0.250	.09	.06	.05
296-6322	OK3925	3900	0.250	.09	.06	.05
296-6324	OK4725	4700	0.250	.09	.06	.05
296-6326	OK1035	10000	0.250	.09	.06	.05
296-6328	OK1535	15000	0.250	.09	.06	.05
296-6330	OK2235	22000	0.250	.09	.06	.05
296-6332	OK2735	27000	0.250	.09	.06	.05
296-6334	OK3935	39000	0.250	.09	.06	.05
296-6336	OK1045	100000	0.250	.09	.06	.05
296-6340	OK1545	150000	0.250	.09	.06	.05
296-6342	OK2245	220000	0.250	.08	.06	.04
296-6344	OK2745	270000	0.250	.09	.06	.05
296-6346	OK4745	470000	0.250	.09	.06	.05
296-6348	OK1055	1 M	0.250	.12	.08	.06

OL Series

296-6400	OL1005	10	0.500	.09	.06	.05
296-6402	OL2705	27	0.500	.09	.06	.05
296-6404	OL4705	47	0.500	.09	.06	.05
296-6406	OL2215	220	0.500	.09	.06	.05
296-6408	OL2715	270	0.500	.09	.06	.05
296-6410	OL4715	470	0.500	.09	.06	.05
296-6412	OL1025	1000	0.500	.09	.06	.05
296-6414	OL1525	1500	0.500	.09	.06	.05
296-6416	OL2225	2200	0.500	.09	.06	.05
296-6418	OL2725	2700	0.500	.09	.06	.05
296-6420	OL3925	3900	0.500	.09	.06	.05
296-6422	OL4725	4700	0.500	.09	.06	.05
296-6424	OL1035	10000	0.500	.09	.06	.05
296-6426	OL1535	15000	0.500	.09	.06	.05
296-6428	OL2235	22000	0.500	.09	.06	.05
296-6430	OL2735	27000	0.500	.09	.06	.05
296-6432	OL3935	39000	0.500	.09	.06	.05
296-6434	OL4735	47000	0.500	.09	.06	.05
296-6436	OL1045	100000	0.500	.09	.06	.05
296-6438	OL1545	150000	0.500	.09	.06	.05
296-6440	OL2245	220000	0.500	.09	.06	.05
296-6442	OL2745	270000	0.500	.09	.06	.05
296-6444	OL4745	470000	0.500	.09	.06	.05
296-6446	OL1055	1 M	0.500	.09	.06	.05

OM Series

Stock No.	Mfr.'s Type	Ohms	Watts	EACH		
				1-9	10-99	100-499
296-6500	OM1005	10	1.000	.23	.17	.15
296-6502	OM2705	27	1.000	.23	.17	.15
296-6504	OM4705	47	1.000	.23	.17	.15
296-6506	OM2215	220	1.000	.23	.17	.15
296-6508	OM2715	270	1.000	.23	.17	.15
296-6510	OM3315	330	1.000	.34	.26	.23
296-6512	OM4715	470	1.000	.23	.17	.15
296-6514	OM1025	1000	1.000	.23	.17	.15
296-6516	OM1525	1500	1.000	.34	.26	.22
296-6518	OM2225	2200	1.000	.23	.17	.15
296-6520	OM2725	2700	1.000	.34	.26	.23
296-6522	OM3925	3900	1.000	.23	.17	.15
296-6524	OM4725	4700	1.000	.23	.17	.15
296-6526	OM1035	10000	1.000	.23	.17	.15
296-6528	OM1535	15000	1.000	.23	.17	.15
296-6530	OM2235	22000	1.000	.23	.17	.15
296-6532	OM2735	27000	1.000	.23	.17	.15
296-6534	OM3935	39000	1.000	.23	.17	.15
296-6536	OM1045	47000	1.000	.23	.17	.15
296-6538	OM1045	100000	1.000	.23	.17	.15
296-6540	OM1245	120000	1.000	.23	.17	.15
296-6542	OM2245	220000	1.000	.23	.17	.15
296-6544	OM2745	270000	1.000	.23	.17	.15
296-6546	OM4745	470000	1.000	.23	.17	.15
296-6548	OM1055	1 M	1.000	.23	.17	.15