

## Resistors

First Draft - probably has errors - released for comment. ©ElectroJumble 2015

Type	Sub-Type	Manufact'r	Type/Style No(s)	70°C Watts Rating	40°C Watts Rating	Length mm	Diameter mm	Max peak Voltage	Temp-Coeff ppm/°C	Shape & Desc'n	Approvals and Notes
Carbon	Solid	ADR telegraphique	RM	2		18	7.9			Cylinder Moulded	Ohmic brand
Carbon	Solid	Allen-Bradley	BB	0.125		3.7	1.6	<240		Cylinder Moulded	MIL-R-39008
Carbon	Solid	Allen-Bradley	CB	0.25		6.4	2.3	<240		Cylinder Moulded	MIL-R-39008
Carbon	Solid	Allen-Bradley	EB	0.5		9.5	3.6	<240		Cylinder Moulded	MIL-R-39008
Carbon	Solid	Allen-Bradley	GB	1		14.3	5.7	<240		Cylinder Moulded	MIL-R-39008
Carbon	Solid	Allen-Bradley	HB	2		18	7.9	<240		Cylinder Moulded	MIL-R-39008
Carbon	Film	Beyschlag	BB/0.2	0.2	0.3	6	2.3	150		Waisted Insulated	1R to 1M
Carbon	Film	Beyschlag	BB/0.25	0.25	0.32	8	2.7	250		Waisted Insulated	1R to 10M
Carbon	Film	Beyschlag	BB/0.4	0.4	0.6	11.5	4.0	400		Waisted Insulated	1R to 10M
Carbon	Film	Beyschlag	BB/0.5	0.55	0.82	13.5	5.8	500		Waisted Insulated	4.7R to 22M
Carbon	Film	Beyschlag	HS/0.125	0.125	0.125	8	2.7	150		Waisted Insulated	10k to 240k
Carbon	Film	Beyschlag	HS/0.333	0.33	0.33	11.5	4.0	300		Waisted Insulated	10R to 1M
Carbon	Film	Beyschlag	HS/0.5	0.5	0.5	13.5	5.8	500		Waisted Insulated	10R to 1M
Carbon	Film	Dubilier	BTF2SM	0.5		9.2	3			Waisted Insulated	
Carbon	Film	Dubilier	BTF4	0.25		7	3	250		Waisted Insulated	
Carbon	Solid	Erie	0	2.5	5	64	17	1000		Bare	RC5E; RCSC 363/6;
Carbon	Solid	Erie	1	2	3	57	13	1000		Bare	RC5F; RCSC 364/7
Carbon	Solid	Erie	2	1	2	45	9.4	1000		Bare	RC5G; RCSC 365/7
Carbon	Solid	Erie	5B	0.1	0.15	6.6	2.8	125		Bare	
Carbon	Solid	Erie	5BD	0.125	0.2	8.4	4.6	250		Insulated	
Carbon	Solid	Erie	6AP	0.125		6.5	3.0	250		Dog-Bone Bare	10R to 12M
Carbon	Solid	Erie	7A	0.25	0.5	11	4.1	700		Bare	
Carbon	Solid	Erie	7AD	0.25	0.5	13	4.8	1000		Insulated	RCSC1054/1
Carbon	Solid	Erie	8	0.5	1	18	6.2	1000		Ceram Ins	RC7M; RCSC 366/8
Carbon	Solid	Erie	8A	0.5	1	17	4.1	1000		Bare	
Carbon	Solid	Erie	8AD	0.5	1	19	5.0	1000		Insulated	
Carbon	Solid	Erie	9	0.25	0.5	12	5.7	700		Ceram Ins	RC7J; RCSC 367/8
Carbon	Solid	Erie	10	1	2	30	12	1000		Ceram Ins	RC7L; RCSC 968/2
Carbon	Solid	Erie	10A	1	2	30	7.8	1000		Bare	
Carbon	Solid	Erie	10AD	1	2	30	8.4	1000		Insulated	RCSC1350/2
Carbon	Solid	Erie	15	0.1	0.15	5.3	2.5	50	<1200	Moulded	Silver plated wires
Carbon	Solid	Erie	16	0.25	0.35	10	3.6	700	<1200	Moulded	Silver plated wires
Carbon	Solid	Erie	17	1	1.5	15	5.9	700	<1200	Moulded	Silver plated wires
Carbon	Solid	Erie	25	0.25		6.4 ±0.7	2.3	250		Cylinder Moulded	
Carbon	Solid	Erie	26	0.26		9.9 ±0.6	3.5	350		Cylinder Moulded	
Carbon	Film	Erie	100	1	1.6	38	9.5	750		Cylinder Ceram Ins	RC3M; E1
Carbon	Film	Erie	108	0.5	0.75	22	6.7	500		Cylinder Ceram Ins	RC3N; E2
Carbon	Film	Erie	109	0.25	0.38	16	6.7	350		Cylinder Ceram Ins	RC3L; E3
Carbon	Comp	Erie	121	0.25	0.25	7 ±0.1	2.3	250	-400/800	Waisted	2R2 to 2M2
Carbon	Comp	Erie	122	0.33	0.5	9 ±0.1	3	300	-400/800	Waisted	2R2 to 5M1

Carbon	Comp	Erie	123	0.5		9.5	3.5		-400/800	Waisted		
Carbon	Comp	Erie	124	1.0	1.0	14	4.8	500	-400/800	Caps		2R2 to 10M
Carbon	Film	Erie	EM0	0.05		5.5	2.0			Waisted	Insulated	
Carbon	Film	Erie	EM1	0.125		8.3	2.5			Waisted	Insulated	
Carbon	Comp	Graham-Farish	T3642								Screw ends	E4 500k to 5M
Carbon	Comp	Graham-Farish	T3704		.15-3						Screw ends	E4 300R to 5M
Carbon	Film	Iskra	UPM 2x6	0.3		6	2.3				Cylinder	
Carbon	Film	Iskra	UPM 2.5x8	0.5		7.8	2.8				Cylinder	
Carbon	Film	Iskra	UPM 4X10	0.75		10	4.3				Cylinder	
Carbon	Film	Iskra	UPM 6X15	1		15	6.3				Cylinder	
Carbon	Film	Iskra	UPM 8X20	1.5		20	8.3				Cylinder	
Carbon	Film	Mullard/Philips	CR16	0.2		4.0	1.6	150	-300/1500	Waisted	Insulated	10R to 1M
Carbon	Film	Mullard/Philips	CR25	0.33		6.5	2.5	250	-300/1500	Waisted	Insulated	1R to 10M
Carbon	Film	Mullard/Philips	CR37	0.5		10	3.7	350	-300/1500	Waisted	Insulated	1R to 10M
Carbon	Film	Piher		0.25		6.4-						
Carbon	Film	Piher		0.5		9.0-11						
Carbon	Film	Piher		1		12-16						
Carbon	Film	Piher		2		16-						
Carbon	Film	RS	Hystab	0.125		7.6	2.3			Waisted		BS2112 DEF5115
Carbon	Film	RS	Hystab	0.25		10.2	3.1			Various		BS2112 DEF5115
Carbon	Film	RS	High Stab	0.25		6.4	2.3		-250/1000	Waisted		
Carbon	Film	RS	High Stab	0.5		9.1	3.3		-250/1000	Waisted		
Carbon	Film	RS	High Stab	1		13	4.5		-250/1000	Waisted		
Carbon	Film	RS	High Stab	2		18	6		-250/1000	Waisted		
Carbon		RS	Moulded	0.5		10.2	3.8				Cylinder	BS2112 DEF5115 MIL-R-11E
Carbon		RS	Moulded	1		14.2	5.3				Cylinder	BS2112 DEF5115 MIL-R-11E
Carbon		RS	Moulded	2		18	7.9				Cylinder	BS2112 DEF5115 MIL-R-11E
Carbon	Film	Neohm	CFR25	0.33					-150/-850			
Carbon	Film	Neohm	CFR50	0.66					-150/-800			
Carbon	Film	Neohm	CFR100	1					1000			
Carbon		Neohm	IBT	1					+/-1200			
Carbon	Film	STC	4302	1		42	9.5	400				10R to 10M
Carbon	Film	STC	4303	0.75		34	6.3	300				10R to 7.5M
Carbon	Film	STC	4304	0.5		25.5	6.3	200				10R to 5.1M
Carbon	Film	STC	4305	0.25		15	4.3	150				4.3R to 4.7M
Carbon	Film	STC	4307	0.1		8.8	2.4	100				10R to 470k
Carbon	Solid	?? Erie??		0.5							Moulded	RC7H
Carbon	Solid	?? Erie??		0.125							Moulded	RC7N
Carbon	Solid	?? Erie??		0.062							Moulded	RC7P

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Metal	Film	Allen-Bradley	FC55	0.25		9.2	2.4		+/-100	Cylinder	Insulated	
Metal	Film	Allen-Bradley	FC65	0.5		12.8	3.6		+/-100	Cylinder	Insulated	
Metal	Oxide	Electrosil	C3	0.125		3.8	1.7		+/-100	Cylinder	Insulated	
Metal	Oxide	Electrosil	C5	0.5		10.7	3.8		+/-100	Cylinder	Insulated	
Metal	Oxide	Electrosil	N25	1.4							Bare	
Metal	Oxide	Electrosil	N30	0.7							Bare	
Metal	Oxide	Electrosil	TR4	0.25		7.1	2.5		+/-200	Waisted	Insulated	
Metal	Oxide	Electrosil	TR5	0.5		9.5	3.8		+/-200	Waisted	Insulated	Pattern RO2-C
Metal	Oxide	Electrosil	TR6	1		15.1	4.8		+/-200	Waisted	Insulated	Pattern RO2-B
Metal	Oxide	Electrosil	TR8	2		18.4	8.5		+/-200	Waisted	Insulated	
Metal	Film	Erg	EE0.05	0.05								
Metal	Film	Erg	EE0.10	0.1								
Metal	Film	Erg	EE0.125	0.125		10.3	3.2			Cylinder	Moulded	
Metal	Film	Erg	EE0.25	0.25								
Metal	Film	Erg	EE0.50	0.5								
Metal	Oxide	Erie	MO4	0.25		6.5	2.5		+/-200	Waisted		
Metal	Oxide	Erie	MO5	0.5		10	3.8		+/-200	Waisted		
Metal	Film	Holsworthy	H2	1.0		15.5	5.5	500	25	Waisted	Insulated	3M to 10M
Metal	Film	Holsworthy	H4	0.5		10	3.7	350	50	Waisted	Insulated	49R9 to 1M
Metal	Film	Holsworthy	H4P	1.0		10	3.7	500	50	Waisted	Insulated	49R9 to 1M
Metal	Film	Holsworthy	H8	0.25		7.2	2.5	350	50	Waisted	Insulated	49R9 to 1M
Metal	Film	Holsworthy	VR37	0.5		10	3.7					
Metal	Film	Holsworthy	MR25/MRS25	0.6								
Metal	Film	Mullard/Philips	MPR24	0.25		6.5	2.5	250	25			
Metal	Film	Mullard/Philips	MPR34	0.4		10	3.0	250	25			
Metal	Film	Mullard/Philips	MR25	0.4		6.5	2.5		50/100			4.99R to 1M
Metal	Film	Mullard/Philips	MR30	0.5		10	3.0		50/100			4.99R to 1M
Metal	Film	Mullard/Philips	MR308	0.5		10	3.0		50/100			4.99R to 1M
Metal	Film	Mullard/Philips	PR37	1.6		10	3.7	350	500			6.8R to 68k
Metal	Film	Mullard/Philips	PR52	2.5		16.7	5.2	350	500			6.8R to 68k
Metal	Film	Mullard/Philips	PR68			26	6.8					
Metal	Film	Mullard/Philips	SFR16	0.2		4	1.6	150	200			10R to 1M
Metal	Film	Mullard/Philips	SFR25	0.33		7	2.5	250	250			1R to 1M
Metal	Film	Mullard/Philips	SFR30	0.5		8.5	3.0	350	250			1R to 1M
Metal	Glaze	Mullard/Philips	VR25	0.25		6.5	2.5	1600	200			1M to 10M
Metal	Glaze	Mullard/Philips	VR37	0.5		10	3.7	3500	200			1M to 33M
Metal	Film	Mullard/Philips	VR68	1		18	6.8	7000	200			1M to 68M
Metal	Film	Neohm	EE1/8	0.25		10	3.2		+/-15			Moulded

Metal	Film	Neohm	R1 (LR1)	0.25	6.4	2.3	+/-50		Insulated	+/-15 ppm from 49R9 to 237K
Metal	Glaze	Neohm	RGL	3	18	7.8	+/-300	Waisted	Insulated	
Metal	Glaze	Neohm	RGP 0204	0.125	4.1	1.8	+/-100		Insulated	
Metal	Glaze	Neohm	RGP 0207	0.5	6.7	2.5	+/-100		Moulded	
Metal	Glaze	Neohm	RGP 0207CH	0.25	6.7	2.5	+/-100		Moulded	
Metal	Glaze	Neohm	RGS0515	2.5	15	5.3	+/-250	Waisted	Insulated	3W at 25°C
Metal	Oxide	Neohm	ROX0515	3	15	5.5	+/-300	Waisted	Insulated	
Metal	Film	Painton	60/50		11.1	3.8				
Metal	Film	Painton	65/50		16	6.1		Cylinder	Moulded	
Metal	Film	RS	Metal Film	0.125	4.1	1.8	+/-50	Waisted		
Metal	Film	RS	Metal Film	0.25	6.5	2.5	+/-50	Waisted		
Metal	Film	RS	Metal Film	0.5	10	3.2	+/-100	Waisted		
Metal	Oxide	RS	Oxide	0.5	10.2	3.8	+/-100	Waisted		DEF5115-1 GPO D2228A
Metal	Oxide	RS	Oxide	1	15.0	4.8	+/-200	Waisted		
Metal	Thick Film	RS	Thick Film	0.25	6.5	2.4	+/-100			
Metal	Film	Welwyn	H11	0.1	19	5.6	500		Red	2.5M to 5000M
Metal	Film	Welwyn	H12	0.2	32	10.3	2000		Red	2.5M to 25G
Metal	Film	Welwyn	H13	0.3	59	10.3	3000		Red	100M to 100G
Metal	Film	Welwyn	MFR3	0.4	4	1.8	+/-50			
Metal	Film	Welwyn	MFR4	0.5	7	2.3	+/-50			
Metal	Film	Welwyn	MFR5	0.75	10	3.4	+/-100			
Metal	Oxide	Welwyn	MR4	0.25	7.1	2.5	250	+/-100	Beige	10R to 150K
Metal	Oxide	Welwyn	MR5	0.5	10.2	3.8	350	+/-100	Beige	10R to 1M
Metal	Oxide	Welwyn	MR6	1	15.1	5.5	500	+/-100	Beige	10R to 1M
Metal	Oxide	Welwyn	MR8	2	18.5	8.5	700	+/-100	Beige	10R to 470K
Metal	Oxide	Welwyn	MRC4	0.25	7.1	2.5	250	<+/-100	Beige	
Metal	Oxide	Welwyn	MRC5	0.5	10.2	3.8	350	<+/-100	Beige	
Metal	Oxide	Welwyn	MRC6	1	15.1	5.5	500	<+/-100	Beige	
Metal	Film	Welwyn	Y0332							

**Notes**

**Dimensions** These are usually the maximum dimensions, but may be typical.

Hence to be regarded as approximate.

E1 Services ratings differ. RC3M is rated 0.5W at 70°C. A rating of 1.1W at 40°C, 0.2W at 100°C is indicated

E2 Services ratings differ. RC3N is rated 0.25W at 70°C. A rating of 0.4W at 40°C, 0.125W at 100°C is indicated

E3 Services ratings differ. RC3L is rated 0.125W at 70°C. A rating of 0.2W at 40°C, 0.06W at 100°C is indicated

E4 This is the Sunco catalogue reference, not the manufacturer's