

# Section 26: Capacitors, Resistors, Potentiometers, Trimmers

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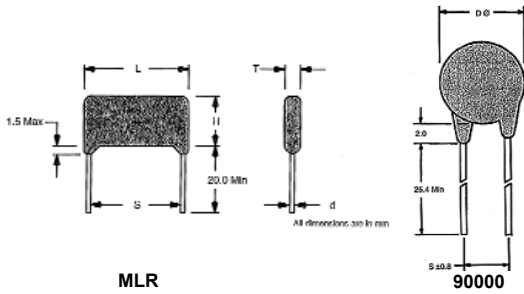


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# Capacitors, Resistors, Potentiometers, Trimmers - Capacitors



## Capacitors



## Pre-Packaged Capacitor Kits

Each kit contains the top 30 most popular resistors or capacitors for group specified. Cabinets stack together to build a component storage center. One piece frame is lightweight and virtually unbreakable. Keyhole slots for wall mounting. Frame measures (W x H x D) 9 1/8" x 7 1/2" x 6 1/2". Contains 15 drawers, each divided in half.



Part #	Description
CK-01	Aluminum Electrolytic
CK-02	High Voltage Aluminum Electrolytic
CK-03	Non-Polarized Aluminum Electrolytic
CK-04	Tantalum
CK-05	50V Ceramic Disc
CK-06	1000V Ceramic Disc
CK-07	Mylar/Film

Series	Type	Description
NEV, NEH	Aluminum Electrolytic	For applications requiring high capacitance, low cost, and very small size
NEVH, NEHH	Aluminum Electrolytic	For polarized capacitor applications requiring small size, high capacitance, and high voltage
NPR, NPA	Aluminum Electrolytic	For use in circuits whose polarity is reversed or unknown
HD	Aluminum Electrolytic	For horizontal deflection current correction where high frequency and high ripple current occur
VHT	Aluminum Electrolytic	For use in automotive, commercial, and industrial applications
SI	Aluminum Electrolytic	For applications requiring high capacitance, low cost, and very small size
SIT	Aluminum Electrolytic	High Temperature. For applications requiring high capacitance, low cost, and very small size
TD	Solid Tantalum	Designed for entertainment, commercial, and industrial equipment
SCT	Solid Tantalum	A molded solid tantalum chip capacitor designed to meet specifications worldwide
89000	Ceramic Disc	50V. A range of insulated disc, monolithic fixed ceramic capacitors used in consumer electronics & telecommunication equipment
90000	Ceramic Disc	1000V. A range of insulated disc, monolithic fixed ceramic capacitors used in consumer electronics & telecommunication equipment
MLR	Mylar/Polyester Film	A range of radial lead polyester film capacitors dipped in a hard epoxy coating material to provide excellent protection against moisture
MRC	Motor Run	Used in motor run, HVAC, lighting, and power supply applications
MSC	Motor Start	Used to provide the torque necessary to start AC motors
CFC	Ceiling Fan	Metallized polyester film capacitors designed expressly for ceiling fan use
CML	Multilayer (Monolithic) Ceramic	Most commonly used for filtering, coupling, and bypass applications

# Capacitors, Resistors, Potentiometers, Trimmers - Resistors



## Resistors

Series	Type	Range Ohms
EW	1/8 Watt Metal	2.2 - 1M
QW	1/4 Watt Metal	1.0 - 22M
HW	1/2 Watt Metal	0.10 - 22M
1W	1 Watt Metal	0.10 - 22M
2W	2 Watt Metal	0.10 - 22M
3W	3 Watt Metal	1.0 - 510K
F1W	1 Watt Fusible Power Oxide	1.0 - 1K
F2W	2 Watt Fusible Power Oxide	1.0 - 1K
5W	5 Watt Power Wirewound	0.10 - 15K
10W	10 Watt Power Wirewound	0.10 - 27K
25W	25 Watt Power Wirewound	0.20 - 8.2K
5WM	5 Watt Aluminum Housed Power Wirewound	0.05 - 40K
10WM	10 Watt Aluminum Housed Power Wirewound	0.05 - 40K
25WM	25 Watt Aluminum Housed Power Wirewound	0.05 - 75K
50WM	50 Watt Aluminum Housed Power Wirewound	0.05 - 100K
SR1-0603	.0625W Thick Film Surface Mount	0.0 - 10M
SR1-0805	100mW Thick Film Surface Mount	0.0 - 10M
SR1-1206	250mW Thick Film Surface Mount	0.0 - 10M

## Pre-Packaged Resistor Kits

Each kit contains the top 30 most popular resistors for group specified. Cabinets stack together to build a component storage center. One piece frame is lightweight and virtually unbreakable. Keyhole slots for wall mounting. Frame measures 9-1/8" W x 7-1/2" H x 6-1/2" D. Contains 15 drawers, each divided in half.



Part #	Description
RK-01	1/8 Watt Resistors (Contains 6 of each)
RK-02	1/4 Watt Resistors (Contains 4 of each)
RK-03	1/2 Watt Resistors (Contains 6 of each)
RK-04	1 Watt Resistors (Contains 4 of each)
RK-05	2 Watt Resistors (Contains 2 of each)
RK-06	5 Watt Resistors (Contains 2 of each)
RK-07	10 Watt Resistors (Contains 2 of each)
RK-08	25 Watt Resistors (Contains 1 of each)

# Capacitors, Resistors, Potentiometers, Trimmers - Potentiometers



## Spectrol 149 Series Potentiometers

Phosphur bronze, solder plated terminals. Available in 1/8" and 1/4" shaft diameters. Plastic flame retardant housing. Available in audio and taper (J type). 1 Watt, 1/2" square, 1/8" and 1/4" dia. Shaft. Resistance range/linear taper: 100 ohm to 2 Meg ohm. CW audio taper: J types. Resistance tolerance:  $\pm 10\%$ . Power rating: 1 watt @ 85°C derated to 0 watts @ 125°C. Temperature coefficient of resistance:  $\pm 150\text{ppm}/^\circ\text{C}$ . Linearity tolerance:  $\pm 5\%$  independent. Contact resistance variation: 3% of total resistance. Insulation resistance: 1000 Meg ohm min, 500VDC. Dielectric strength: 750V RMS min 60Hz. End resistance: 2 ohm max each end. Effective electrical angle:  $265^\circ \pm 5^\circ$ . Rotation life: 25,000 cycles. Resistance element: cermet. Mechanical rotation:  $295^\circ \pm 5^\circ$ . Starting and running torque: 21.6 to 216gm-cm. End stop torque: 0.339Nm (48oz in). Operating temperature: -55°C to +150°C. Rotation life: 2,000,000 shaft revolutions. Load life: 1000 hrs.



Part #	Spectrol No.	Value (ohms)	Shaft Length
502-0002	149-8-08-101	100	3/4"
502-0003	149-8-08-200	200	3/4"
502-0004	149-8-08-251	250	3/4"
502-0005	149-8-08-501	500	3/4"
502-0006	149-8-08-102	1K	3/4"
502-0007	149-8-08-252	2.5K	3/4"
502-0008	149-8-08-502	5K	3/4"
502-0009	149-8-08-103	10K	3/4"
502-0010	149-8-08-253	25K	3/4"
502-0011	149-8-08-503	50K	3/4"
502-0012	149-8-08-104	100K	3/4"
502-0013	149-8-08-254	250K	3/4"
502-0014	149-8-08-504	500K	3/4"
502-0015	149-8-08-105	1M	3/4"

## Spectrol 149 Series Potentiometers (cont.)

Part #	Spectrol No.	Value (ohms)	Shaft Length
502-0021	149-9-10-101	100	7/8"
502-0022	149-9-10-200	200	7/8"
502-0023	149-9-10-251	250	7/8"
502-0024	149-9-10-501	500	7/8"
502-0025	149-9-10-102	1K	7/8"
502-0026	149-9-10-252	2.5K	7/8"
502-0027	149-9-10-502	5K	7/8"
502-0028	149-9-10-103	10K	7/8"
502-0029	149-9-10-253	25K	7/8"
502-0030	149-9-10-503	50K	7/8"
502-0031	149-9-10-104	100K	7/8"
502-0032	149-9-10-254	250K	7/8"
502-0033	149-9-10-504	500K	7/8"
502-0034	149-9-10-105	1M	7/8"
502-0035	149-9-10-205	2M	7/8"
502-0045	149-J-9-10-102	1K	7/8"
502-0046	149-J-9-10-252	2.5K	7/8"
502-0047	149-J-9-10-502	5K	7/8"
502-0048	149-J-9-10-103	10K	7/8"
502-0049	149-J-9-10-253	25K	7/8"
502-0050	149-J-9-10-503	50K	7/8"
502-0051	149-J-9-10-104	100K	7/8"
502-0016	149-8-08-205	2M	3/4"



# Capacitors, Resistors, Potentiometers, Trimmers - Potentiometers



## Spectrol 249 Series Potentiometers

Phosphur bronze, solder plated terminals. Available in 1/8" and 1/4" shaft diameters. 1/4" plastic shaft types. Plastic flame retardant housing. Available in audio and taper (J type). 1 Watt, 1/2" square, 1/8" and 1/4" dia. Shaft. Resistance range/linear taper: 100 ohm to 1 Meg ohm. CW audio taper: J types. Resistance tolerance:  $\pm 10\%$ . Power rating: 1 watt @ 70°C derated to 0 watts @ 125°C. Temperature coefficient of resistance:  $\pm 100\text{ppm}/^\circ\text{C}$ . Linearity tolerance:  $\pm 5\%$  independent. Contact resistance variation: 3% of total resistance. Insulation resistance: 1000 Meg ohm min, 500VDC. Dielectric strength: 750V RMS min 50Hz. End resistance: 2 ohm max each end. Effective electrical angle:  $265^\circ \pm 5^\circ$ . Rotation life: 25,000 cycles. Resistance element: cermet. Mechanical rotation:  $295^\circ \pm 5^\circ$ . Starting and running torque: 1.5 to 18.75mNm. End stop torque: 0.35Nm (50oz in). Operating temperature: -55°C to +125°C. Load life: 1000 hrs.



Part #	Spectrol No.	Value (ohms)	Shaft Length
502-0064	249-8-08-501	500	3/4"
502-0065	249-8-08-102	1K	3/4"
502-0066	249-8-08-252	2.5K	3/4"
502-0067	249-8-08-502	5K	3/4"
502-0068	249-8-08-103	10K	3/4"
502-0069	249-8-08-253	25K	3/4"
502-0070	249-8-08-503	50K	3/4"
502-0071	249-8-08-104	100K	3/4"
502-0072	249-8-08-254	250K	3/4"
502-0073	249-8-08-504	500K	3/4"
502-0164	249-7-10-501	500	7/8"
502-0165	249-7-10-102	1K	7/8"
502-0166	249-7-10-252	2.5K	7/8"
502-0167	249-7-10-502	5K	7/8"
502-0168	249-7-10-103	10K	7/8"
502-0169	249-7-10-253	25K	7/8"
502-0170	249-7-10-503	50K	7/8"
502-0171	249-7-10-104	100K	7/8"
502-0172	249-7-10-254	250K	7/8"
502-0173	249-7-10-504	500K	7/8"
502-0180	249-J-8-08-102	1K	3/4"
502-0181	249-J-8-08-103	10K	3/4"
502-0182	249-J-8-08-503	50K	3/4"
502-0183	249-J-8-08-104	100K	3/4"
502-0185	249-J-9-10-102	1K	7/8"
502-0186	249-J-9-10-103	10K	7/8"
502-0187	249-J-9-10-503	50K	7/8"
502-0188	249-J-9-10-104	100K	7/8"

## Spectrol 357 Series Potentiometers

Compact Size. Stainless Steel 1/4" diameter shaft. Turret type, solder plate terminals. Plastic housing with non-turn pin. 1Watt, 7/8" round case, 1/4" dia. Shaft, single turn. Resistance range/linear taper: 1K ohm to 50K ohm. Resistance tolerance:  $\pm 20\%$ . Power rating: 1 Watt@70°C derated to 0 watts @ 125°C. Temperature coefficient of resistance:  $\pm 600\text{ppm}/^\circ\text{C}$ . Linearity tolerance:  $\pm 2\%$  independent. Output smoothness: 0.1% max. Insulation resistance: 1000 Meg ohm min, 500VDC. Dielectric strength: 100V RMS min 50Hz. End voltage: 0.5% max. Electrical travel  $340^\circ \pm 3^\circ$ . Rotation life: 2,000,000 shaft revolutions. Bearing type bushing: sleeve bearing. Resistance element: conductive plastic. Mechanical rotation:  $360^\circ$  (continuous),  $340^\circ \pm 3^\circ$  (with stops). Starting and running torque: 3.68mNm(0.5 oz in). Shaft tolerance: 0.13 mm (runout), 0.25 mm (end play), 0.13 mm (radial play). Rotation life: 10,000,000 shaft revolutions. Operating temperature: -55°C to +125°C. Load life: 1000 hrs. Shaft Length: 7/8".



Part #	Spectrol No.	Value (ohms)
502-0080	357-0-0-102	1K
502-0081	357-0-0-202	2K
502-0082	357-0-0-502	5K
502-0083	357-0-0-103	10K

## Spectrol 357 Series Potentiometers (cont.)

Part #	Spectrol No.	Value (ohms)
502-0084	357-0-0-203	20K
502-0085	357-0-0-503	50K
502-0087	357-2-0-102	1K
502-0088	357-2-0-202	2K
502-0089	357-2-0-502	5K
502-0090	357-2-0-103	10K
502-0091	357-2-0-203	20K
502-0092	357-2-0-503	50K

## Spectrol 534 Series Potentiometers

Permanickel contact. Stainless steel 1/4" diameter shaft. Gold plated terminals. Internal tracking surfaces gold plated. Precision winding with excellent linearity. 3 Watt, 7/8" round case, 1/4" shaft, 10 turn, precision wirewound. Resistance range: 100 ohm to 100K ohm. Resistance tolerance:  $\pm 5\%$ . Linearity (independent):  $\pm 0.25\%$ . Noise: 100 ohm ENR. Rotation:  $3600^\circ +10^\circ, -0^\circ$ . Power rating: 2 watt @ 70°C derated to 0 watts @ 125°C. Insulation resistance: 1000 Meg ohm min, 500VDC. Dielectric strength: 1000V RMS min 50Hz. Absolute minimum resistance: not to exceed linearity x total resistance or 1 ohm, whichever is greater. Temperature coefficient of resistance:  $20\text{ppm}/^\circ\text{C}$  (wire only). End voltage: 0.25% of total applied voltage, max. Bearing type bushing: sleeve bearing. Rotation:  $3600^\circ +10^\circ, -0^\circ$ . Starting torque (maximum): 36 gm-cms (0.5 oz in). Stop strength (static): 5.4 Kgm-cm (75 oz in). Rotation life: 1,000,000 shaft revolutions. Operating temperature: -55°C to 125°C. Load life: 900 hrs.



Part #	Value (ohms)	Resolution (%)	Ohms per Turn	Max Current @70°C Ambient (mA)	Max.Volt Across Coil
502-0100	100	0.06	0.0603	141	14.1
502-0101	200	0.037	0.0746	100	20
502-0102	500	0.031	0.152	63.2	31.6
502-0103	1K	.025	.2459	44.70	44.7
502-0104	2K	.021	.4113	31.60	63.2
502-0105	5K	.016	.8206	20.00	100.0
502-0106	10K	.017	1.7230	14.10	141.0
502-0107	20K	.015	3.0160	10.00	200.0
502-0108	50K	0.009	4.669	6.32	316
502-0109	100K	.007	7.4560	4.47	447.0



# Capacitors, Resistors, Potentiometers, Trimmers - Potentiometers



## PEC KU/RV4NAY Series Potentiometers

Hot molded carbon element. Gold plated terminals. Stainless steel shaft and housing. Meets or exceeds specifications of MIL-R-94-QPL Listed. 2 watt, 1/4" diameter shaft. Resistance range/linear taper is 50 ohm to 5 Meg ohm. Resistance tolerance is  $\pm 10\%$ . Power rating is 2 watts @ 70°C derated to 0 Watts @ 120°C. Insulation resistance is 10K Meg ohm (Dry) and 100K Meg ohm (Wet). Dielectric strength is 900V RMS at sea level. Operating voltage is 500V subject to power rating. Mechanical rotation is 314°. Operating torque is 1 oz/in to 6 oz/in. Rotation life is 25,000 cycles. Operating temperature is -65°C to 125°C. Resistance to soldering heat is 350°C for 5 seconds. Load life is 1,000 hrs at 70°C.

Part #	Value (Ohms)	Shaft Length
501-0002	100	7/8"
501-0003	250	7/8"
501-0004	500	7/8"
501-0005	1K	7/8"

## PEC KU/RV4NAY Series Potentiometers (cont.)

Part #	Value (Ohms)	Shaft Length
501-0006	2K	7/8"
501-0007	2.5K	7/8"
501-0009	5K	7/8"
501-0010	10K Meg (Dry) 100K Meg (Wet)	7/8"
501-0012	25K	7/8"
501-0014	50K	7/8"
501-0015	100K	7/8"
501-0018	500K	7/8"
501-0019	1M	7/8"
501-0034	1K	2"
501-0038	5K	2"
501-0039	10K	2"

## Spectrol 533 Series Potentiometers

Permanickel contact. Stainless steel 1/4" diameter shaft. Gold plated terminals. Internal tracking surfaces gold plated. Precision winding with excellent linearity. 1.5 Watt, 7/8" round case, 1/4" shaft, 3 turn, precision wirewound. Resistance range: 50 ohm to 20K ohm. Resistance tolerance:  $\pm 5\%$ . Linearity (independent):  $\pm 0.25\%$ . Noise: 100 ohm ENR. Rotation: 1080° +10°, -0°. Power rating: 1 watt @ 70°C derated to 0 watts @ 125°C. Insulation resistance: 100 Meg ohm min, 500VDC. Dielectric strength: 1000V RMS min 50Hz. Absolute minimum resistance: not to exceed linearity x total resistance or 1 ohm, whichever is greater. Temperature coefficient of resistance: 20ppm/°C (wire only). End voltage: 0.25% of total applied voltage, max. Bearing type bushing: sleeve bearing. Rotation: 1080° +10°, -0°. Starting torque (maximum): 50 gm-cms (0.7 oz in). Stop strength (static): 5.4 Kgm-cm (75 oz in). Rotation life: 300,000 shaft revolutions. Operating temperature: -55°C to +125°C. Load life: 900 hrs. Shaft Length: 7/8".

Part #	Spectrol No.	Value (ohms)	Resolution (%)	Ohms per Turn	Max Current @70°C Ambient (mA)	Max.Voltage Across Coil (Volts)
502-0130	533-1-1-101	100	0.111	0.1114	100	10
502-0131	533-1-1-201	200	0.097	0.1954	70.7	14.1
502-0132	533-1-1-501	500	0.069	0.3424	44.7	22.4
502-0133	533-1-1-102	1K	0.063	0.6331	31.6	31.6
502-0134	533-1-1-202	2K	0.041	0.8206	22.4	44.7
502-0135	533-1-1-502	5K	0.044	2.233	14.1	70.7
502-0136	533-1-1-103	10K	0.034	3.451	10	100
502-0137	533-1-1-203	20K	0.031	6.179	7.07	141

## Spectrol 536 Series Potentiometers

Permanickel contact. Plastic 1/4" diameter shaft. Gold plated terminals. Internal tracking surfaces gold plated. Precision winding with excellent linearity. 3 Watt, 7/8" round case, 1/4" dia. Shaft, 10 turn, precision wirewound. Resistance range: 100 ohm to 100K ohm. Resistance tolerance:  $\pm 5\%$ . Linearity (independent):  $\pm 0.25\%$ . Noise: 100 ohm ENR. Rotation: 3600° +10°, -0°. Power rating: 3 watt @ 70°C derated to 0 watts @ 125°C. Insulation resistance: 1000 Meg ohm min, 500VDC. Dielectric strength: 100V RMS min 60Hz. Absolute minimum resistance: not to exceed .10% of total resistance or 1 ohm, whichever is greater. Temperature coefficient of resistance: 20ppm/°C (wire only). End voltage: 0.25% of total applied voltage, max. Bearing type bushing: sleeve bearing. Rotation: 3600° +10°, -0°. Starting torque (maximum): 36 gm-cms (0.5 oz in). stop strength (static): 5.4 Kgm-cm (75 oz in). Rotation life: 1,000,000 shaft revolutions. Operating temperature: -55°C to +125°C. Load life: 900 hrs. Shaft length: 7/8".

Part #	Spectrol No.	Value (ohms)	Resolution (%)	Ohms per Turn	Max Current @70°C Ambient (mA)	Max.Voltage Across Coil (Volts)
502-0115	536-1-1-101	100	0.06	0.0603	141	14.1
502-0116	536-1-1-201	200	0.037	0.0746	100	20
502-0117	536-1-1-501	500	0.031	0.152	63.2	31.6
502-0118	536-1-1-102	1K	0.025	0.2459	44.7	44.7
502-0119	536-1-1-202	2K	0.021	0.4113	31.6	63.2
502-0120	536-1-1-502	5K	0.016	0.8206	20	100
502-0121	536-1-1-103	10K	0.017	1.723	14.1	141
502-0122	536-1-1-203	20K	0.015	3.016	10	200
502-0123	536-1-1-503	50K	0.009	4.669	6.32	316
502-0124	536-1-1-104	100K	0.007	7.456	4.47	447



# Capacitors, Resistors, Potentiometers, Trimmers - Potentiometers



## Spectrol 535 Series Potentiometers

Permanickel contact. Stainless steel 1/4" diameter shaft. Gold plated terminals. Internal tracking surfaces gold plated. Precision winding with excellent linearity. 2.3 Watt, 7/8" round case, 1/4" shaft, 5 turn, precision wirewound. Resistance range: 50 ohm to 50K ohm. Resistance tolerance:  $\pm 5\%$ . Linearity (independent):  $\pm 0.25\%$ . Noise: 100 ohm ENR. Rotation:  $1800^\circ +10^\circ, -0^\circ$ . Power rating: 1.5 watt @  $70^\circ\text{C}$  derated to 0 watts @  $125^\circ\text{C}$ . Insulation resistance: 1000 Meg ohm min, 500 VDC. Dielectric strength: 1000V RMS min 50Hz. Absolute minimum resistance: not to exceed linearity x total resistance or 1 ohm, whichever is greater. Temperature coefficient of resistance: 20ppm/ $^\circ\text{C}$  (wire only). End voltage: 0.25% of total applied voltage, max. Bearing type bushing: sleeve bearing. Rotation:  $1800^\circ +10^\circ, -0^\circ$ . Starting torque (maximum): 50 gm-cms (0.7 oz in). Stop strength (static): 5.4 Kgm-cm (75 oz in). Rotation life: 500,000 shaft revolutions. Operating temperature:  $-55^\circ\text{C}$  to  $+125^\circ\text{C}$ . Load life: 900 hrs. Shaft length: 7/8".

Part #	Spectrol No.	Value (ohms)	Resolution (%)	Ohms per Turn	Max Current @70°C Ambient (mA)	Max.Voltage Across Coil (Volts)
502-0145	535-1-1-101	100	0.075	0.0746	122	12.2
502-0146	535-1-1-201	200	0.061	0.122	86.6	17.3
502-0147	535-1-1-501	500	0.049	0.2459	54.7	27.4
502-0148	535-1-1-102	1K	0.041	0.4113	38.7	38.7
502-0149	535-1-1-202	2K	0.031	0.6331	27.4	54.8
502-0150	535-1-1-502	5K	0.034	1.723	17.3	86.6
502-0151	535-1-1-103	10K	0.03	3.016	12.2	122
502-0152	535-1-1-203	20K	0.02	3.991	8.66	173
502-0153	535-1-1-503	50K	0.015	7.456	5.47	274



## Miniature Potentiometers (16mm)

These potentiometers are used in a lot of consumer electronics applications such as stereos, TV's, two-way radios, and many more. They are now available in solder lug type and universal terminal which may be inserted into PC boards or wrapped with wire and soldered. They are available in resistance values from 1K (1000) ohms to 1 Meg (1,000,000) ohms and in both audio and linear tapers and with or without switches. Maximum linear voltage is 150V AC. Maximum audio voltage is 200V AC.



## Standard Potentiometers (24mm)

These potentiometers are used in a lot of consumer electronics applications such as stereos, TV's, two-way radios, and many more. They are now available in solder lug type and universal terminal which may be inserted into PC boards or wrapped with wire and soldered. They are available in resistance values from 500 ohms to 1 Meg (1,000,000) ohms and in both audio and linear tapers and with or without switches. Maximum linear voltage is 500V AC. maximum audio voltage is 250V AC.



Part #	Resistance	Taper	Switch	Terminal Style
PC72	1K	Linear	No	Combo
PC725	1K	Linear	Yes	Combo
PC82	1K	Audio	No	Combo
PC825	1K	Audio	Yes	Solder lug
PC73	5K	Linear	No	Combo
PC83	5K	Audio	No	Combo
PC835	5K	Audio	Yes	Combo
PC74	10K	Linear	No	Combo
PC745	10K	Linear	Yes	Combo
PC84	10K	Audio	No	Combo
PC845	10K	Audio	Yes	Combo
PC75	50K	Linear	No	Combo
PC85	50K	Audio	No	Combo
PC855	50K	Audio	Yes	Combo
PC76	100K	Linear	No	Combo
PC86	100K	Audio	No	Combo
PC865	100K	Audio	Yes	Combo
PC77	500K	Linear	No	Combo
PC775	500K	Linear	Yes	Combo
PC87	500K	Audio	No	Combo
PC875	500K	Audio	Yes	Combo
PC78	1Meg	Linear	No	Combo
PC88	1Meg	Audio	No	Combo
PC885	1Meg	Audio	Yes	Combo

Part #	Resistance	Taper	Switch	Terminal Style
PC31	500	Linear	No	Combo
PC22	1K	Linear	No	Solder lug
PC325	1K	Audio	Yes	Combo
PC32	1K	Audio	No	Combo
PC335	5K	Audio	Yes	Combo
PC23	5K	Linear	No	Solder lug
PC33	5K	Audio	No	Combo
PC24	10K	Linear	No	Solder lug
PC245	10K	Linear	Yes	Combo
PC34	10K	Audio	No	Combo
PC345	10K	Audio	Yes	Combo
PC25	50K	Linear	No	Solder lug
PC35	50K	Audio	No	Combo
PC355	50K	Audio	Yes	Combo
PC26	100K	Linear	No	Solder lug
PC36	100K	Audio	No	Combo
PC365	100K	Audio	Yes	Combo
PC27	500K	Linear	No	Solder lug
PC275	500K	Linear	Yes	Combo
PC37	500K	Audio	No	Combo
PC375	500K	Audio	Yes	Combo
PC28	1Meg	Linear	No	Solder lug
PC285	1Meg	Linear	Yes	Combo
PC38	1Meg	Audio	No	Combo
PC385	1Meg	Audio	Yes	Combo



# Capacitors, Resistors, Potentiometers, Trimmers - Potentiometers



## Sub-Miniature Trimmer Potentiometer

Very small; well suited for the low profile sets. For printed circuit board mount. Control is linear. Ideal for volume and tone control for compact audio products.



Part #	Ohms
PC300	300
PC500	500
PC1K	1000
PC2K	2000
PC5K	5000
PC10K	10000
PC30K	30000
PC50K	50000
PC500K	500000
PC100K	100000



## Potentiometers (cont.)

### ½ Watt Potentiometers with 1 Amp Switch

Resistance Tolerance is ±20%. 0.1W @ 150VAC.



Part #	Type
62-222-0	1K, linear
62-223-0	5K, linear
62-224-0	10K, linear
62-226-0	50K, linear
62-227-0	100K, linear
62-228-0	500K, linear
62-229-0	1M, linear
62-254-0	10K, log (audio)



## Potentiometers

### ½ Watt PC Mount Potentiometers

Resistance Tolerance is ±20% 0.1W @ 150VAC. 10K linear.

Part # 62-284-0



### ½ Watt Potentiometers

Resistance Tolerance is ±20% 0.1 W @ 150VAC.



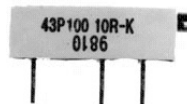
Part #	Type
62-234-0	10K, log (audio)
62-236-0	50K, log (audio)
62-243-0	5K, linear
62-244-0	10K, linear
62-246-0	50K, linear
62-247-0	100K, linear
62-248-0	500K, linear

# Capacitors, Resistors, Potentiometers, Trimmers - Trimmers



## Spectrol 43P Series Trimmers

Multifinger wiper for better contact resistance variation. Unique "T" slider block for excellent stability and setability. Chevron shaft for sealing and smooth consistent torque. IC style pins for easier board insertion. 3/4" rectangular, multiturn cermet.



Part #	Value (ohms)
500-0001	10
500-0002	20
500-0003	50
500-0004	100
500-0005	200
500-0006	500
500-0007	1K
500-0008	2K
500-0009	5K
500-0010	10K
500-0011	20K
500-0012	25K
500-0013	50K
500-0014	100K
500-0015	200K
500-0016	250K
500-0017	500K
500-0018	1M
500-0019	2M



## Spectrol 63P Series Trimmers

Multifinger wiper for better contact resistance. Arrow and graduations for repeatable settings. "O" ring seal for solvent and aqueous washing. IC style pins for easier board insertion. Solid end stop. 3/8" square, single turn cermet.



Part #	Value (ohms)	Adjust
500-0070	10	Top
500-0071	20	Top
500-0072	50	Top
500-0073	100	Top
500-0074	200	Top
500-0075	500	Top
500-0076	1K	Top
500-0077	2K	Top
500-0078	5K	Top
500-0079	10K	Top
500-0080	20K	Top
500-0081	25K	Top
500-0082	50K	Top
500-0083	100K	Top
500-0084	200K	Top
500-0085	250K	Top
500-0086	500K	Top
500-0087	1M	Top
500-0088	2M	Top



# Capacitors, Resistors, Potentiometers, Trimmers - Trimmers

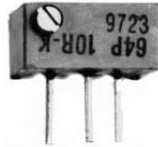


## Spectrol 63P Series Trimmers (cont.)

Part #	Value (ohms)	Adjust
500-0098	100	Dial Knob
500-0099	200	Dial Knob
500-0100	500	Dial Knob
500-0101	1K	Dial Knob
500-0102	2K	Dial Knob
500-0103	5K	Dial Knob
500-0104	10K	Dial Knob
500-0105	20K	Dial Knob
500-0106	25K	Dial Knob
500-0107	50K	Dial Knob
500-0108	100K	Dial Knob
500-0109	200K	Dial Knob
500-0110	250K	Dial Knob
500-0111	500K	Dial Knob
500-0112	1M	Dial Knob

## Spectrol 64P Series Trimmers

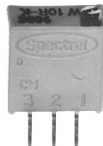
Multifinger precious metal wiper for long term set point stability. Central pivot locating gear for improved stability. Unique ratchet device integral with gear to ensure long term reliability. Double chevron shaft for sealing plus consistent torque and reliable adjustability. IC style pins for easier board insertion. 3/8" square, multiturn cermet. Side adjust.



Part #	Value (ohms)
500-0170	10
500-0171	20
500-0172	50
500-0173	100
500-0174	200
500-0175	500
500-0176	1K
500-0177	2K
500-0178	5K
500-0179	10K
500-0180	20K
500-0181	25K
500-0182	50K
500-0183	100K
500-0184	200K
500-0185	250K
500-0186	500K
500-0187	1M
500-0188	2M

## Spectrol 64W Series Trimmers

Multifinger precious metal wiper for long term set point stability. Central pivot locating gear for improved stability. Unique ratchet device integral with gear to ensure long term reliability. Double chevron shaft for sealing plus consistent torque and reliable adjustability. IC style pins for easier board insertion. 3/8" square, multiturn cermet. Top adjust.



Part #	Value (ohms)
500-0192	10
500-0193	20
500-0194	50
500-0195	100
500-0196	200
500-0197	500

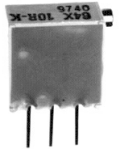


## Spectrol 64W Series Trimmers (cont.)

Part #	Value (ohms)
500-0198	1K
500-0199	2K
500-0200	5K
500-0201	10K
500-0202	20K
500-0203	25K
500-0204	50K
500-0205	100K
500-0206	200K
500-0207	250K
500-0208	500K
500-0209	1M
500-0210	2M

## Spectrol 64X Series Trimmers

Multifinger precious metal wiper for long term set point stability. Central pivot locating gear for improved stability. Unique ratchet device integral with gear to ensure long term reliability. Double chevron shaft for sealing plus consistent torque and reliable adjustability. IC style pins for easier board insertion. 3/8" square, multiturn cermet. Side adjust.



Part #	Value (ohms)
500-0215	10
500-0216	20
500-0217	50
500-0218	100
500-0219	200
500-0220	500
500-0221	1K
500-0222	2K
500-0223	5K
500-0224	10K
500-0225	20K
500-0226	25K
500-0227	50K
500-0228	100K
500-0229	200K
500-0230	250K
500-0231	500K
500-0232	1M
500-0233	2M

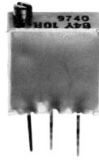


# Capacitors, Resistors, Potentiometers, Trimmers - Trimmers



## Spectrol 64Y Series Trimmers

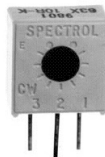
Multifinger precious metal wiper for long term set point stability. Central pivot locating gear for improved stability. Unique ratchet device integral with gear to ensure long term reliability. Double chevron shaft for sealing plus consistent torque and reliable adjustability. IC style pins for easier board insertion. 3/8" square, multiturm cermet. Top adjust.



Part #	Value (ohms)
500-0240	10
500-0241	20
500-0242	50
500-0243	100
500-0244	200
500-0245	500
500-0246	1K
500-0247	2K
500-0248	5K
500-0249	10K
500-0250	20K
500-0251	25K
500-0252	50K
500-0253	100K
500-0254	200K
500-0255	250K
500-0256	500K
500-0257	1M
500-0258	2M

## Spectrol 63X Series Trimmers

Multifinger wiper for better contact resistance. Arrow and graduations for repeatable settings. "O" ring seal for solvent and aqueous washing. IC style pins for easier board insertion. Solid end stop. 3/8" square, single turn cermet. Side adjust.

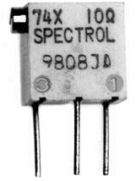


Part #	Value (ohms)
500-0365	10
500-0366	20
500-0367	50
500-0368	100
500-0369	200
500-0370	500
500-0371	1K
500-0372	2K
500-0373	5K
500-0374	10K
500-0375	20K
500-0376	25K
500-0377	50K
500-0378	100K
500-0379	200K
500-0380	250K
500-0381	500K
500-0382	1M
500-0383	2M



## Spectrol 74X Series Trimmers

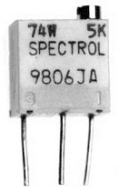
Multifinger wiper for better contact resistance. Fully sealed housing for immersion cleaning. Small compact size. 1/4" square, multiturm cermet. Side adjust.



Part #	Value (ohms)
500-0260	10
500-0261	20
500-0262	50
500-0263	100
500-0264	200
500-0265	500
500-0266	1K
500-0267	2K
500-0268	5K
500-0269	10K
500-0270	20K
500-0271	50K
500-0272	100K
500-0273	200K
500-0274	500K
500-0275	1M

## Spectrol 74W Series Trimmers

Multifinger wiper for better contact resistance. Fully sealed housing for immersion cleaning. Small compact size. 1/4" square, multiturm cermet. Top adjust.



Part #	Value (ohms)
500-0280	10
500-0281	20
500-0282	50
500-0283	100
500-0284	200
500-0285	500
500-0286	1K
500-0287	2K
500-0288	5K
500-0289	10K
500-0290	20K
500-0291	50K
500-0292	100K
500-0293	200K
500-0294	500K
500-0295	1M

# Capacitors, Resistors, Potentiometers, Trimmers - Trimmers



## Spectrol 75H Series Trimmers

Multifinger wiper for better contact resistance. "O" ring seal for solvent and aqueous washing. Graduations for easier setting. Rotor and body material flame retardant. 1/4" round, single turn cermet. Top adjust.

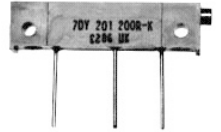


Part #	Value (ohms)
500-0300	10
500-0301	20
500-0302	50
500-0303	100
500-0304	200
500-0305	500
500-0306	1K
500-0307	2K
500-0308	5K
500-0309	10K
500-0310	20K
500-0311	50K
500-0312	100K
500-0313	200K
500-0314	500K
500-0315	1M
500-0316	2M



## Spectrol 70Y Series Trimmers

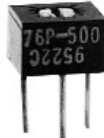
Multifinger wiper for better contact resistance variation. Unique "T" slider block for excellent stability and setability. Chevron shaft for sealing and smooth consistent torque. IC style pins for easier board insertion. 1/4" rectangular, multiturn cermet



Part #	Value (ohms)
500-0390	10
500-0391	20
500-0392	50
500-0393	100
500-0394	200
500-0395	500
500-0396	1K
500-0397	2K
500-0398	5K
500-0399	10K
500-0400	20K
500-0401	50K
500-0402	100K
500-0403	200K
500-0404	500K
500-0405	1M

## Spectrol 76P Series Trimmers

Multifinger wiper for better contact resistance. Withstands immersion cleaning process. Graduations for easier setting. Rotor design for automatic adjustment. 1/4" square, single turn cermet. Top adjust.



Part #	Value (ohms)
500-0342	50
500-0343	100
500-0344	200
500-0345	500
500-0346	1K
500-0347	2K
500-0348	5K
500-0349	10K
500-0350	20K
500-0351	50K
500-0352	100K
500-0353	200K
500-0354	500K
500-0355	1M

# Capacitors, Resistors, Potentiometers, Trimmers - Accessories



## Spectrol Model 15

3 digit or 4 digit types. 2 No. 4-40 hex socket set screws for mounting. Brake level knob. Open window display. Satin clear anodized finish. 1" x 1-3/4" rectangular, 1/4" diameter shaft.

Part #	Spectrol No.	Numeric Display	No. of Turns
503-0001	15-1-11	3 Digit	10
503-0002	15-2-11	4 Digit	100

## Spectrol Model 16

Vernier scale. No. 2-56 spline socket set screw for mounting. Brake level knob. Open window display. Satin chrome finish, black markings. 7/8" diameter, 1/4" diameter shaft.

Part #	Numeric Display	Turns	Finish
503-0004	Vernier Scale	15	Satin Chrome, Black Markings
503-0005	Vernier Scale	15	Black Chrome, White Markings

## Spectrol Model 21

Vernier scale. No. 2-56 spline socket set screw for mounting. Brake level knob. Open window display. Satin chrome finish, black markings. 7/8" diameter, 1/4" diameter shaft.

Part #	Spectrol No.	Numeric Display	No. of Turns
503-0006	21-1-11	Vernier Scale	15

## DD Series Knobs

Knob machined aluminum. .500", .750", and .925" dia. types. Available in natural aluminum (clear) or black. Available in matte or gloss finish. Dimensions are in inches (mm).



Part #	Diameter (A)	Shaft Diameter	Finish
504-0001	.500 (12.7)	.125 (3.2)	Clear gloss
504-0002	.500 (12.7)	.250 (6.35)	Black gloss
504-0003	.500 (12.7)	.125 (3.2)	Black gloss
504-0004	.500 (12.7)	.250 (6.35)	Black matte
504-0005	.500 (12.7)	.125 (3.2)	Black matte
504-0006	.750 (19.05)	.250 (6.35)	Clear gloss
504-0007	.750 (19.05)	.125 (3.2)	Clear gloss
504-0008	.750 (19.05)	.250 (6.35)	Black gloss
504-0009	.750 (19.05)	.250 (6.35)	Black Matte
504-0010	.925 (23.5)	.250 (6.35)	Clear gloss
504-0011	.925 (23.5)	.250 (6.35)	Black gloss
504-0012	.925 (23.5)	.250 (6.35)	Black matte

## 400 Series Dial

Vernier scale. Black anodized with white markings or natural aluminum (clear) anodized with black markings. Available with or without brake lever. 1" diameter, 1/4" dia shaft, aluminum. Ten turns.



Part #	Brake Lever	Finish
505-0001	No	Black
505-0002	Yes	Black
505-0003	No	Clear
505-0004	Yes	Clear

## 500 Series Dial

Vernier scale. Black anodized with white markings or natural aluminum (clear) anodized with black markings. Available with or without brake lever. 1" diameter, 1/4" dia shaft, aluminum. One turn. Brake lever.



Part #	Numeric Display	Turns	Brake Lever	Finish
505-0005	Vernier Scale	1	Yes	Black
505-0006	Vernier Scale	1	Yes	Clear

## 600 Series Dial

Uncalibrated. Black or natural aluminum (clear) anodized. Available with brake lever. 1" diameter, 1/4" dia shaft, aluminum. No numeric display. Infinite number of turns. Brake lever.



Part #	Finish
505-0007	Black
505-0008	Clear

## DDS Series Knobs

Knob machined aluminum. .500", .750", and .925" dia. types. Available in natural aluminum (clear) or black. Available in matte or gloss finish. Dimensions are in inches (mm).



Part #	Diameter (A)	Shaft Diameter	Finish
504-0015	.500 (12.7)	.125 (3.2)	Clear gloss
504-0016	.500 (12.7)	.125 (3.2)	Black gloss
504-0017	.500 (12.7)	.125 (3.2)	Black gloss
504-0018	.500 (12.7)	.125 (3.2)	Black matte
504-0019	.750 (19.05)	.250 (6.35)	Clear gloss
504-0020	.750 (19.05)	.250 (6.35)	Black gloss
504-0021	.750 (19.05)	.250 (6.35)	Black gloss
504-0022	.750 (19.05)	.250 (6.35)	Clear matte
504-0023	.750 (19.05)	.250 (6.35)	Black matte
504-0024	.750 (19.05)	.250 (6.35)	Black matte
504-0025	.925 (23.5)	.250 (6.35)	Clear gloss
504-0026	.925 (23.5)	.250 (6.35)	Black gloss
504-0027	.925 (23.5)	.250 (6.35)	Black matte
504-0028	.925 (23.5)	.250 (6.35)	Black matte

## JD Series Knobs

Knob machined aluminum. .500", .750", and .925" dia. types. Available in natural aluminum (clear) or black. Available in matte or gloss finish. Dimensions are in inches (mm).



Part #	Diameter (A)	Shaft Diameter	Finish
504-0030	.500 (12.7)	.125 (3.2)	Clear gloss
504-0031	.500 (12.7)	.125 (3.2)	Black gloss
504-0032	.500 (12.7)	.125 (3.2)	Black gloss
504-0033	.500 (12.7)	.125 (3.2)	Clear matte
504-0034	.500 (12.7)	.125 (3.2)	Black matte
504-0035	.750 (19.05)	.250 (6.35)	Clear gloss
504-0036	.750 (19.05)	.250 (6.35)	Black gloss
504-0037	.750 (19.05)	.250 (6.35)	Black gloss
504-0038	.750 (19.05)	.250 (6.35)	Black matte
504-0039	.925 (23.5)	.250 (6.35)	Clear gloss
504-0040	.925 (23.5)	.250 (6.35)	Black gloss
504-0041	.925 (23.5)	.250 (6.35)	Black matte
504-0042	.925 (23.5)	.250 (6.35)	Black matte

## HD Series Knobs

Knob machined aluminum. .500", .750", and .925" dia. types. Available in natural aluminum (clear) or black. Available in matte or gloss finish. Dimensions are in inches (mm).



Part #	Diameter (A)	Shaft Diameter	Finish
504-0045	.500 (12.7)	.125 (3.2)	Clear gloss
504-0046	.500 (12.7)	.125 (3.2)	Black gloss
504-0047	.500 (12.7)	.250 (6.35)	Black matte
504-0048	.500 (12.7)	.125 (3.2)	Black matte
504-0049	.750 (19.05)	.250 (6.35)	Black gloss
504-0050	.750 (19.05)	.125 (3.2)	Black gloss
504-0051	.750 (19.05)	.250 (6.35)	Black matte
504-0052	.925 (23.5)	.250 (6.35)	Clear gloss
504-0053	.925 (23.5)	.250 (6.35)	Black gloss
504-0054	.925 (23.5)	.250 (6.35)	Black matte

