

#### **Key Features**

- Choice of Shafts and Edgewheels
- SPST Switch Style
- Available in Distribution
- Automatic Machine Insertable Modules
- Eyelet or PC Terminations
- Linear and Non-Linear Laws
- Multi Gang Versions Available



The Type 51 Series from TE Connectivity offers a small, high quality potentiometer system. You can choose a standalone module or a Coventinnal bush potentiometer with shaft. Advanced carbon polymer element tenhnology cotentiometers with or without switches are available to meet your every requirements.

## Characteristics - Electrical

Resistance Range Linear Law	470 Ohm to 4.7 Megohm
	2.2K Ohm to 470K Ohm
Resistance Values:	1.0, 2.2, 4.7 per decade
Tolerance:	± 20% (tighter by selection)
Power Rating 👝 Dear Law	0.2 Watt @ 40°C
Log Law:	0.1 Waπ @ 40°C
Operating Volume Linear Law:	350 VAC or 500 VDC maximum
Log Law:	P maximum x R nominal
Lo Life:	ΔR< 10% after 1000 hours @ 70°C
Rota and Life:	√AR< 10% @ 15,000 cycles
V(L ar! w):	ΔR< 1%
Isola on Vortage:	500 V dc
Insulation Resistance:	> 100 Megohm

## **Characteristics - Mechanical**

300°±2°
10 mNm maximum
400 mNm maximum
25,000 cycles

### **Characteristics - Environmental**

Storage Temperature:	- 40°C to 85°C
Operating Temperature:	- 25°C to 70°C
Humidity:	< 15% AR RH 75% @ 35%C
Temperature Coefficient:	± 500 PPM/°C @ -25 to 70°C
Climatic Category:	25/070/10

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Dimensions in millimetres unless otherwise specified Dimensions Shown for reference purposes only. Specifications subject to change



### Characteristics - Switch

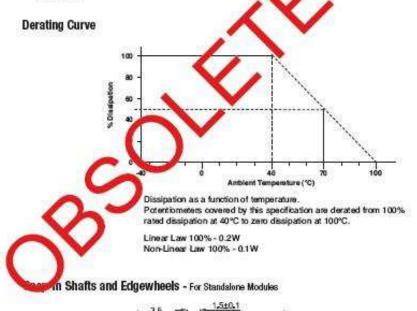
Load Life:	1000 Hours at 0.5 W	
Contact Resistance:	< 20 milliohm initial	
Rating:	3.5 Amp @ 14.4 VDC	
Contact Configuration:	SPST Off @ CCW E	
On/Off Torque:	30 m Nm maximum	
Operational Angle:	30° maximum	
Electrical Rotation:	50° to 295°	

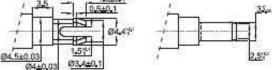
#### Soldering Condition

This product has been designed for flow solder only.
SOLDER BATH: 235°C 40°C/-5°C
MMERSION TIME: 2 ±0.5 seconds
EST CONDITIONS: IEC 391-1 clause 6.22.3
EST METHOD: IEC 68-2
Two Time Et Carles is designed by thus calibring only 3 Hand Caldering is accessible along table

The Type 51 Series is designed for flow soldering only. If Hand Soldering is essential please take extreme care when applying solder.

Do not overheat the terminal by prolonged exposure to heat of the wise intermittent operation could result.





The diagram illustrates the snap-in part of a plastic actuator which can be used to rotate the Series 51 Standatione module.

#### Accessory Options - For Standalone Modules

At the date of publication the following mould tools exist for plug in accessories:

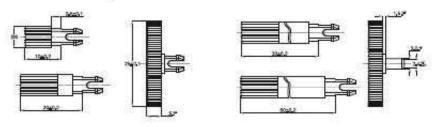
Shafts 60 mm long x 6 mm diameter	with knurl end and screwdriver slot colour black
Shafts 30 mm long x 6 mm diameter	with knurl and and screwdriver skt colour black
Shafts 20 mm long x 6 mm diameter	with knurl end and screwdriver slot colour black
Shafts 10 mm long x 6 mm diameter	with knurl end and screwdriver slot colour black
Edgewheel for horizontal modules 25mm diameter	colour black.

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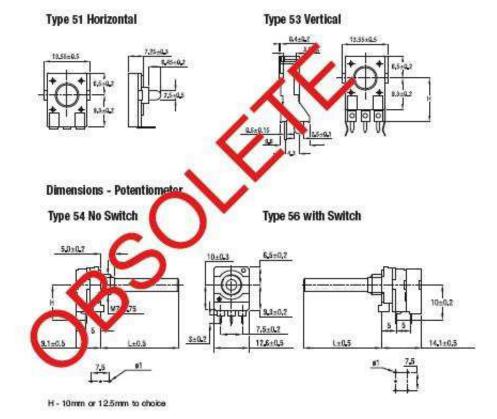
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**Thumbwheel Actuating Devices** 

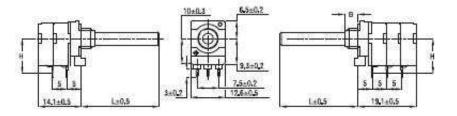


**Dimensions - Single Module** 



Type 55 Dual Section





H - 10mm or 12.5mm to choice

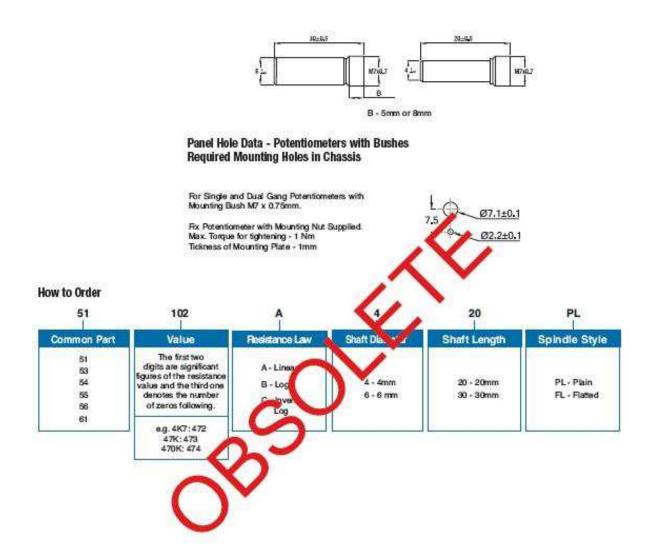
B - 5mm or 8mm Type 61 has the same general dimensions as Type 55

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## Spindle Options - Potentiometers with Bush



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