

Type 51 Series

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 moduly or a devent malibush potentiometer with shaft. Advanced carbon polymer element termnology cotentiometers with or without switches are available to meet your every requirements.

Characteristics - Electrical

tesistance Range Linear Law	470 Ohm to 4.7 Megohm
	2.2K Ohm to 470K Ohm
esistance Values:	1.0, 2.2, 4.7 per decade
olerance:	± 20% (tighter by selection)
Power Rating Dear Law Log Caw:	0.2 Watt @ 40°C
	0.1 Watt @ 40°C
perating Vo	350 VAC or 500 VDC maximum
Log Law:	P maximum x R nominal
c. Life:	ΔR<10% after 1000 hours @ 70°C
lots - r Life:	√ΔR< 10% @ 15,000 cycles
(Larlw):	ΔR< 1%
ida in Voltage:	500 V dc
sula on Resistance:	> 100 Megohm

Characteristics - Mechanical

Angle of Rotation:	300° ± 2°	
Rotational Torque:	10 mNm maximum	
Stop Strength:	400 mNm maximum	
Rotational Life:	25,000 cycles	

Characteristics - Environmental

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



Type 51 Series

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 +0°C/-5°C

IMMERSION TIME: 2 ±0.5 seconds

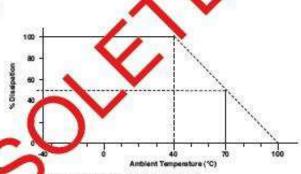
TEST CONDITIONS: IEC 391-1 clause 6.22.3

TEST METHOD: IEC 68-2

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 hwise ignermittent operatio could result.

Derating Curve

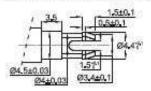


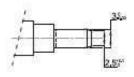
Dissipation as a function of temperature.

Potentiometers covered by this specification are derated from 100% rated dissipation at 40°C to zero dissipation at 100°C.

Linear Law 100% - 0.2W Non-Linear Law 100% - 0.1W

n Shafts and Edgewheels - For Standalone Modules





The diagram illustrates the snap-in part of a plastic actuator which can be used to rotate the Series 51 Standalone 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 end and screwdriver skt. colour black
Shafts 20 mm long x 6 mm diameter	with knurl end and screwdriver skit 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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Dimensions in millimetres unless otherwise specified

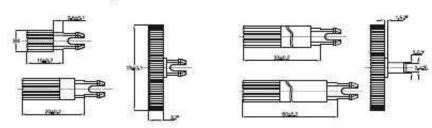
Dimensions Shown for reference purposes only. Specifications subject to change

For Email, phone or live chat, go to: www.te.com/help



Type 51 Series

Thumbwheel Actuating Devices



Dimensions - Single Module



Type 55 Dual Section

H - 10mm or 12.5mm to choice

H - 10mm or 12.5mm to choice

B - 5mm or 8mm

Type 61 Triple Section

Type 61 has the same general dimensions as Type 55

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Dimensions in millimetres unless otherwise specified

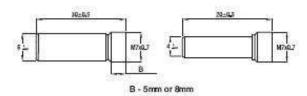
Dimensions Shown for reference purposes only. Specifications subject to change

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Type 51 Series

Spindle Options - Potentiometers with Bush



Panel Hole Data - Potentiometers with Bushes Required Mounting Holes in Chassis



单击下面可查看定价,库存,交付和生命周期等信息

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