

Type 3103 Series



The latest miniaturised Citec sealed trimmer is the smallest, lightest sealed potentiometer available and the most cost effective. Consuming just 10.5mm² of board real estate, it has been developed specifically for new generation hand held equipment, where double sided component placement is often unavoidable. These 3mm devices are only 1.8mm high. Due to the innovative carbon on polymer technology, the device sets new standards in low cost high reliability electro mechanical components.

Key Features

- Tiny 3mm Square Size
- Latest Carbon Polymer Technology
- Suitable For Washing
- Delta Terminals Prevent Solder Bridging
- Super Thin - Less Than 2mm High
- Packed in 8mm Standard Plastic Tape
- Integrated End Stop

Characteristics - Electrical

Resistance Range:	200R to 1M
Resistance Values:	1, 2, 5 in each decade
Resistance Tolerance:	± 30%
Temperature Coefficient of Resistance:	± 500ppm / °C (25 to 85°C) ± 750ppm / °C (-25 to 25°C)
Resistance Law:	Linear
Max. Operating Voltage:	50V dc
Contact Resistance Variation:	5% of Nominal Max.
Power Rating:	0.05W at 50°C (Derating to zero @ 85°C)
Effective Electrical Angle:	260° ± 20°

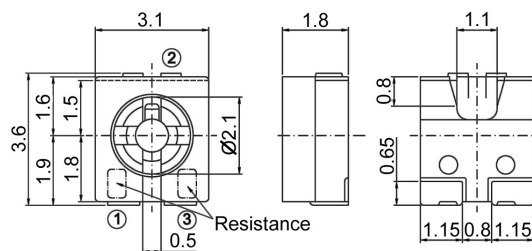
Mechanical

Rotational Torque:	1 to 15 mNm
Adjustment (End Stop Torque):	20 mNm
Weight:	0.09 grams
Terminal Robustness:	Horizontal 10 N Vertical 5 N

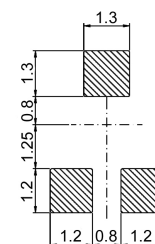
Environmental

Temperature Range:	- 25°C to 70°C
Rotational Life:	After 20 cycles ΔR ± 15%
Load Life:	ΔR Within + 2%, -15% after 500 hrs at 50°C Under Load
Sealing:	Dustproof - Suitable for Washing
Humidity Load Life:	ΔR -10%, +15% after 500 hrs at 40°C, RH 90 to 95%, Under Load

Dimensions



Substrate Layout



How to Order

3103	X	502	N
Common Part	Orientation	Resistance Value	Tolerance
3mm Sealed Trimmer	X - Terminals 1 and 3 away from the sprocket holes	The first two digits are significant figures of resistance value and the third denotes the number of zeros following. e.g. 1K: 102 5K: 502 100K: 104	N - 30 %