Tvco **Electronics**

Type 3150 Series

Key Features

- Tiny 4mm potentiometer
- Stable cermet element
- Lightweight only 0.2g
- Only 1.5mm height above board
- **Components marked** with value
- 0.2W power dissipation
- Packaged in 1000 pieces on 12mm tape
- Delta terminals / in line terminals
- Top and underside adjust available

Applications

- Audio / Visual
- Calibration
- Instrumentation
- Industrial controls

Characteristics - Electrical

Resistance Range:	100R to 1M
Resistance Values:	1, 2 & 5 in each decade
Resistance Tolerance:	± 25%
Resistance Law:	Linear
Temperature Coefficient of Resistance:	± 250ppm/°C (-25°C to +85°C)
Maximum Operating Voltage:	50V DC
Resolution:	Infinite
Contact Resistance Variation:	5% of nominal value
Power Rating:	0.2W @ 70°C
Electrical Rotation:	260° ±20°

Temperature Range:	-40°C to +100°C
Temperature Storage:	-55°C to +100°C
Rotational Life:	20 Cycles ΔR ±15%
Load Life:	$\Delta R < 5\%$ after 500 hours @ 70°C
Humidity Load Life:	$\Delta R \pm 5\%$ 500 hours at 95% RH under load (60°C)
High Temperature:	$\Delta R \pm 5\%$ 500 hours at 70°C

Characteristics - Mechanical

Rotation Torque:	2 - 20mNm
Weight:	0.2g
Terminal Strength:	Horizontal 1Kgf – Vertical 500gf
Mechanical Rotation:	Continuous
Marking:	Resistance code on potentiometer. Date code on reels

Derating Curve



Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are standard equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.



This is the ultimate in lightweight, low profile skeleton 4mm surface mount potentiometers.

Offered in easy, top or underside adjustment, with a plus slot that is ideal for automatic top

adjustment. At a weight of 0.2 grams and a profile height that is only 1.5mm above the

board, it is a natural choice for new generation hand held equipments. The trimmer is a mere

4mm and is a well proven and popular package supplied on standard 12mm tape for automatic placement, and reflow soldering systems. The central hole is filled with resin to improve ease of pick and placement. **Characteristics - Environmental**

1







Storage Conditions

The product should be stored in a normal, clean, dry, load- and stress-free environment. In cases where the product remains in the packaging after opening, please ensure you shut out moisture, gas, etc.

Recommended Land Pattern

Storage under the following conditions should be avoided:

- Temperature: less than -10°C and more than +40°C
- Relative humidity: more than 85%
- Atmosphere of corrosive gas
- Long-term storage of over six months
- Exposure to direct sunlight

How to Order



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