

**Type 3150 Series**



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.

**Key Features**

- Tiny 4mm Potentiometer
- Stable Cermet Element
- Light Weight - Only 0.2 Grams
- 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

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**Characteristics - Electrical**

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

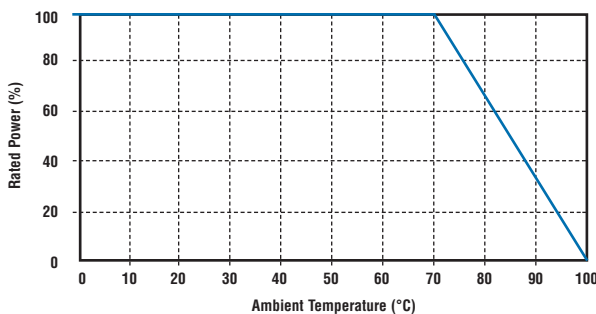
**Characteristics - Mechanical**

<b>Rotation Torque:</b>	2 - 20 mNm
<b>Weight:</b>	0.2 grams
<b>Terminal Strength:</b>	Horizontal 1Kgf – Vertical 500gf
<b>Mechanical Rotation:</b>	Continuous
<b>Marking:</b>	Resistance Code on Potentiometer. Date Code on Reels

**Characteristics - Environmental**

<b>Temperature Range:</b>	-40°C to +100°C
<b>Temperature Storage:</b>	-55°C to +100°C
<b>Rotational Life:</b>	20 Cycles ΔR ±15%
<b>Load Life:</b>	ΔR < 5% after 500 Hours @ 70°C
<b>Humidity Load Life:</b>	ΔR ± 5% 500 Hours at 95% RH under load (60°C)
<b>High Temperature:</b>	ΔR ± 5% 500 Hours at 70°C

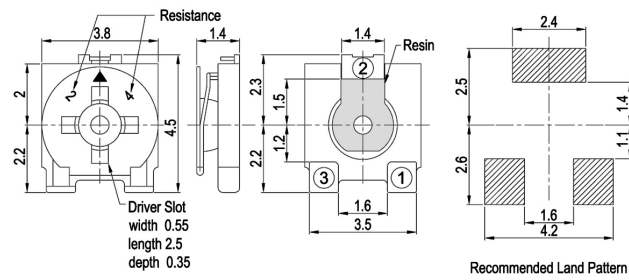
**Derating Curve**



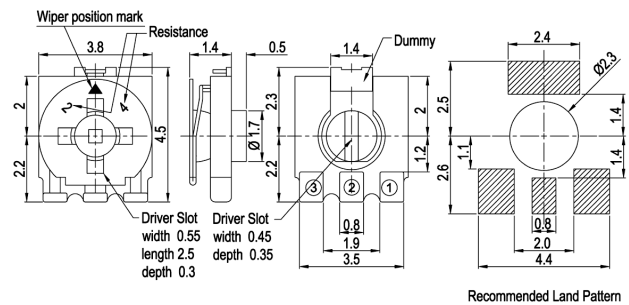
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**Dimensions**

**3150**



**3155**



**Storage Conditions**

Storage under the following condition should be avoided.

- 1 Temperature: less than -10°C and more than 40°C.  
Relative humidity: more than 85 %.
- 2 Atmosphere of corrosive gas.
- 3 Long term storage of over 6 months.
- 4 Atmosphere of direct solar radiation in direct sunlight.

Store the package in a style without unsuitable load and stress. While in cases where product remains in the packaging after opening, you should be take measure of shutting out moisture, gas, etc...

Product should be stored in a normal, clean, dry and stress free environment

**How to Order**

3150	W	102	P
<b>Common Part</b>	<b>Orientation</b>	<b>Resistance Value</b>	<b>Tolerance</b>
3150 - 3 Terminals Offset Top Adjust  3155 - 3 Terminals Inline Top / Underside Adjust	W - Terminals a and c towards the sprockets holes	The first two digits are significant figures of resistance value and the third denotes the number of zeros following.  e.g. 100R: 101 1K: 102 10K: 103	P - 25 %