# **Single Turn Trimmer**

### Model 23



#### **Features:**

- 4 mm square
- Sealed single turn
- Cermet
- Surface mount



#### **Electrical**

Standard Resistance Range	100 Ohms to 2 Megohms
Standard Resistance Tolerance	±20%
Input Voltage	200 Vdc Max. or rms not to exceed power rating
Power Rating	0.25 Watts at 70°C derating to 0 at 125°C
End Resistance	1% or 3 Ohms Max., whichever is greater
Actual Electrical Travel	200° nominal
Dielectric Strength	500 Vrms
Insulation Resistance	100 Megohms Min.
Resolution	Essentially infinite
Contact Resistance Variation	2% or 3 Ohms Max., whichever is greater

#### **Environmental**

Seal	85°C Fluorinert® (No Leaks)
Temperature Coefficient	$\pm 100 \text{ ppm/°C} (<200 \text{ Ohms or } >1 \text{Meg} = \pm 250 \text{ ppm/°C})$
Operating Temperature Range	-55°C to +125°C
Thermal Shock	Five cycles -55°C to +125°C (2% ΔRT, 2% ΔVR)
Moisture Resistance	Ten 24 hour cycles (3% ΔRT)
Shock	6 ms sawtooth, 100 G's (1% ΔRT, 1% ΔVR)
Vibration	20 G's, 10 to 2,000 Hz (1% ΔRT, 1% ΔVR)
High Temperature Exposure	250 hours at 125°C (2% ΔRT, 2% ΔVR)
Rotational Life	100 cycles (5% ΔRT)
Load Life	1,000 hours at 70°C & 0.25 Watts (3% ΔRT, 1% ΔVR)
Resistance to Solder Heat	260°C for 10 sec. (1% ΔRT)

#### Mechanical

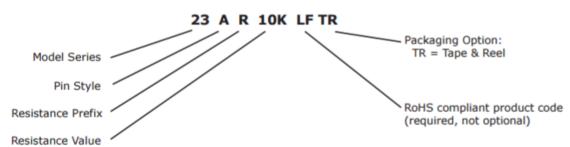
Mechanical Stops	Solid
Stop Strength	4 ozin. Min. (300 g-cm)
Torque	2 ozin. Max. (150 g-cm)
Weight	0.005 oz. nominal (0.14 grams)

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### **Ordering Information**



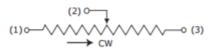
### **Packaging Information**

Standard (no code): Boxes. Capacity = 100 units.

Option (TR code): Tape & Reel. All units oriented with #2 (slider) pin adjacent to sprocket holes.

	Pin Style	A,B	S
Таре	Width =	12 mm	12 mm
	Sprocket =	4 mm pitch	4 mm pitch
	Capacity =	500 units	750 units
Reel	Diameter =	7" (178 mm)	10" (254 mm)

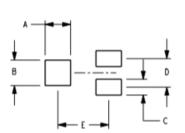
#### **Circuit Diagram**



### **Standard Resistance Values, Ohms**

100	1K	10K	100K	1Meg
200	2K	20K	200K	2Meg
500	5K	50K	500K	

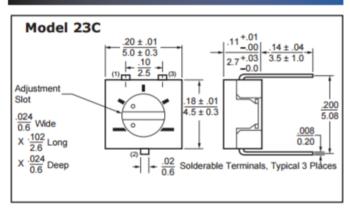
#### RECOMMENDED PCB LAYOUT



		•	
	23A	238	23\$
A	2.00	.051 1.3	2.0
В	2.00	2.0	2.0
С	.051 1.3	1.3	.051 1.3
D	2.3	2.3	2.54
Ε	157	.217 5.5	3.48

Inch/mm

#### **THROUGH HOLE**



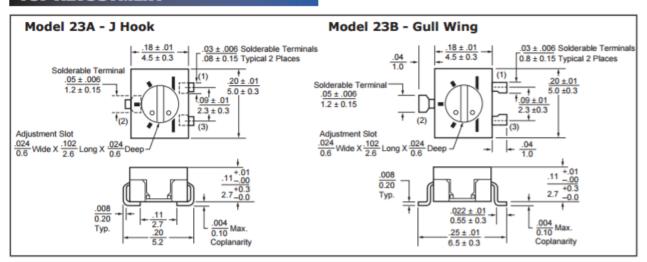
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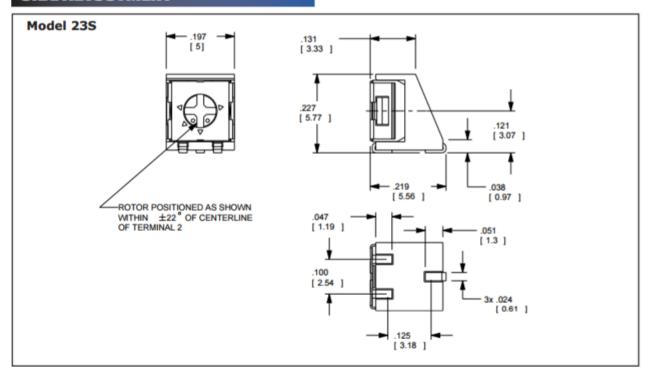


### **Outline Drawings**

#### **TOP ADJUSTMENT**



#### SIDE ADJUSTMENT



## **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

### **TT Electronics:**

<u>91AR250K</u> <u>23BR25KLFTR</u> <u>45WR2KLFT7</u> <u>45JR20LFT7</u> <u>83PR50LF</u> <u>83YR20LF</u> <u>39WRBBR50KLF10</u> 38PKAAR10KLF20 36WR1KLF