

# **Key Features**

- Stable High Resolution Cermet Element
- Rugged Construction
- **PCB Standoffs**
- **Wide Value Range**
- 0.5 Watt Power Rating
- **■** High Reliability
- **■** Dust and Splash Proof
- Auto Adjust Head Available

# **Type 409 Series**



The 409 series offers typical TE Connectivity (TE) features, the stability of a cermet resistive element, and an attractive price. The range satisfies many applications in industrial and professional equipment. Components are available with top, underside, side, finger, auto and skeleton adjustments. The 409 is widely used in power supplies, telecommunications, medical instrumentation and the automotive industry.

#### Characteristics - Electrical

Resistance Range:	100R to 1M (Linear)
Resistance Values:	1, 2, 5 in each decade
Resistance Tolerance:	± 20%
End Resistance:	2% Nominal
Wiper Current:	50mA maximum
Power Rating:	0.5W at 70°C derating to zero at 100°C
Limiting Element Voltage:	200V DC or AC RMS maximum
Rotational Noise (CRV):	3% maximum
Temperature Coefficient:	±250ppm/°C

#### **Characteristics - Mechanical**

End Stop:	50 mNm minimum
Starting Torque:	30 mNm maximum
Mechanical Adjustment:	260° nominal
Operational Life:	100 turns

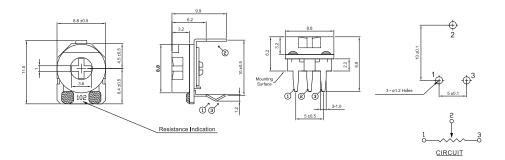
### **Characteristics - Environmental**

Temperature Range:	- 25°C to + 100°C
Load Life at 70°C:	$\Delta R < 5\%$ after 1000 hours
Sealing:	Dust Proof
Climatic Category:	25/100/21

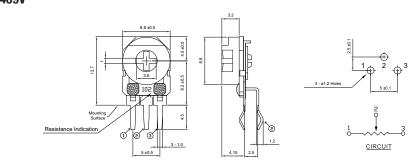


# **Type 409 Series**

# Dimensions 409H



# 409V



#### **How to Order** 409 104 M **Head Style Common Part** Adjustment Style **Resistance Value Tolerance** The first two digits A - Phillips Slot H - Top / Bottom are significant Adjust figures of resistance 409 R - Auto Adjust M - -20% value and the third V - Side Adjust denotes the number S - Finger Adjust of zeros following. T - Minus Slot e.g. 100R: 101 1K0: 102 X - Skeleton 10K: 103

# **Mouser Electronics**

**Authorized Distributor** 

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TE Connectivity: