

## Type 409 Series

## **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



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**

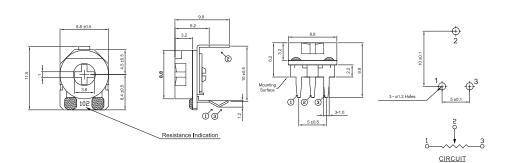
Temperature Range:	- 25°C to + 100°C		
Load Life at 70°C:	$\Delta R < 5\%$ after 1000 hours		
Sealing:	Dust Proof		
Climatic Category:	25/100/21		



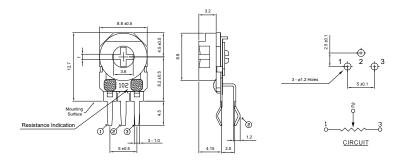
**Economy Trimmers** 

## **Type 409 Series**

## Dimensions 409H



## 409V



## How to Order

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

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TE Connectivity: 409VA103M