## Model 44

# Cermet Trimming Potentiometer

# **Electronics**

#### Features:

- Space saving SMD package for the most compact board designs
- Sealed to withstand aggressive water wash
- Long life—set and forget construction
- BI quality and reliability
- Available in top and side adjustment versions and J-Hook or gull wing termination



#### **Applications:**

- Any application requiring adjustability or calibration
- Any application requiring adjustability of calibration

• Consumer electronics

Medical

#### **Electrical**

Standard resistance range	10 Ohms to 2 Megohms		
Standard resistance tolerance	±10% (<100 Ohms = ±20%)		
Input voltage	300 Vdc max. or rms not to exceed power rating		
Slider current	100 mA max. or within rated power, whichever is less		
Power rating	0.25 Watts at 85°C derating to 0 at 150°C		
End resistance	1% or 2 Ohms max., whichever is greater		
Actual electrical travel	9 turns nominal		
Dielectric strength	600 Vrms		
Insulation resistance	1,000 Megohms minimum		
Resolution	Essentially infinite		
Contact resistance variation	1% or 3 Ohm max., whichever is greater		

#### **Environmental**

Seal	85°C Fluorinert® (No Leaks)		
Temperature coefficient	±100 ppm/°C (<100 Ohms = ±250 ppm/°C)		
Operating temperature range	-65°C to +150°C		
Thermal shock	Five cycles –65°C to +150°C (2% ΔRT, 1% ΔVR)		
Moisture resistance	Ten 24 hour cycles (2% ΔRT, IR 10 Megohms min.)		
Shock	6 ms saw-tooth, 100 G's (1% ΔRT, 1% ΔVR)		
Vibration	20 G's, 10 to 2,000 Hz (1% ΔRT, 1% ΔVR)		
Rotational life	200 cycles (3% ΔRT, 1% CRV)		
Load life	1,000 hours at 85°C & 0.25 Watts (2% ΔRT, 1% CRV)		
Resistance to solder heat	260°C for 10 sec. (1% ΔRT)		
Temperature exposure	215°C for 3 min. maximum (1% ΔRT)		
Solderability	Per MIL-STD-202, method 208		

General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

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Mechanical				
Mechanical stops	Clutch action, both ends			
Torque, starting	3 ozin. max. (0.021 N-m)			
Weight	0.01 oz. nominal (0.3 grams)			

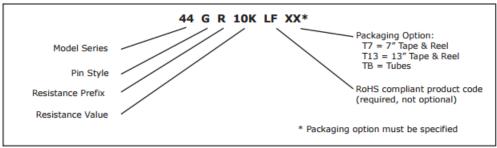
#### **Packaging**

Standard: Embossed Tape & Reel. All units oriented with #1 pin to the right of the direction of feed.

	13" Reel			7" Reel	
	Pin Style	G & J	$\mathbf{W}$	G & J	$\mathbf{W}$
Tape	Width =	12 mm	16 mm	12 mm	16 mm
	Sprocket =	4 mm pitch	4 mm pitch	4 mm pitch	4 mm pitch
	Capacity =	1,000 units	1,000 units	500 units	250 units
Reel	Diameter =	13" (330.2 mm)		7" (178 mm)	

Option: Anti-static tubes. All units oriented with #1 pin to same side. Tube capacity = 100 units.

# **Ordering Information**



# **Circuit Diagram**

