## Model 44 4mm Square Multiturn Surface Mount Cermet Trimming Potentiometer



#### FEATURES AND BENEFITS

• 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

#### ELECTRICAL

10 Ohms to 2 Megohms
$\pm 10\%$ (<100 Ohms = $\pm 20\%$ )
300 Vdc Max. or rms not to exceed power rating
100 mA Max. or within rated power, whichever is less
0.25 Watts at 85°C derating to 0 at 150°C
1% or 2 Ohms Max., whichever is greater
9 turns nominal
600 Vrms
1,000 Megohms Min.
Essentially infinite
1% or 3 Ohms Max., whichever is greater

#### ENVIRONMENTAL

Seal	85°C Fluorinert <sup>®</sup> (No Leaks)
Temperature Coefficient	$\pm 100 \text{ ppm/°C} (<100 \text{ Ohms} = \pm 250 \text{ ppm/°C})$
Operating Temperature Range	-65°C to +150°C
Thermal Shock	Five cycles $-65^{\circ}$ C to $+150^{\circ}$ C (2% $\Delta$ RT, 1% $\Delta$ VR)
Moisture Resistance	Ten 24 hour cycles (2% $\Delta$ RT, IR 10 Megohms Min.)
Shock	6 ms sawtooth, 100 G's (1% $\Delta$ RT, 1% $\Delta$ VR)
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. Max. (1% ΔRT)
Solderability	Per MIL-STD-202, Method 208

Specifications subject to change without notice. Fluorinert® is a registered trademark of 3M Company.



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#### MECHANICAL

Mechanical StopsClutch action, both endsTorque, Starting3 oz.-in. Max. (0.021 N-m)Weight0.01 oz. nominal (0.3 grams)

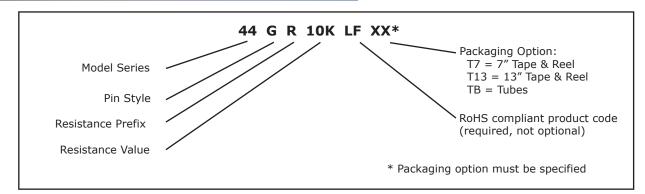
### PACKAGING

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

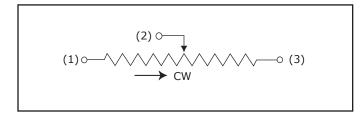
		13″	Reel	7″ Reel		
	Pin Style	G & J	w	G & J	w	
Таре	Width =	12 mm	16 mm	12 mm	16 mm	
	Sprocket =	4 mm pitch	4 mm pitch	4 mm pitch	4 mm pitch	
	Capacity =	1,000 units	1,000 units	500 units	250 units	
Reel	Diameter =	13" (330.2 mm)		7″ (17	8 mm)	

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

#### ORDERING INFORMATION



#### CIRCUIT DIAGRAM



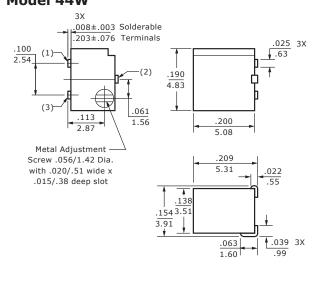
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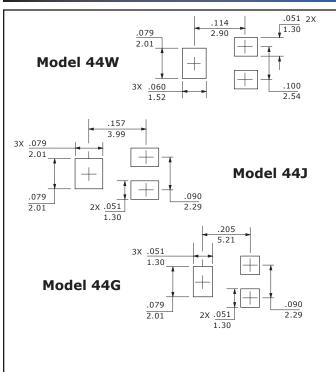
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### **TOP ADJUSTMENT**



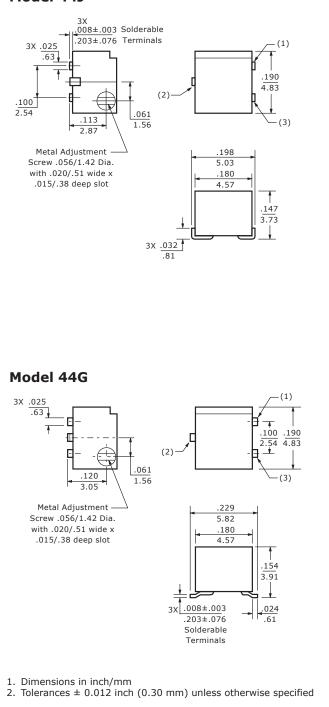


#### **SOLDER PAD LAYOUT**



#### SIDE ADJUSTMENT

#### Model 44J



#### **STANDARD RESISTANCE VALUES**

Γ	10	100	1K	10K	50K	250K	2Meg
	20	200	2K	20K	100K	500K	
	50	500	5K	25K	200K	1Meg	

#### **BI Technologies Corporation**

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