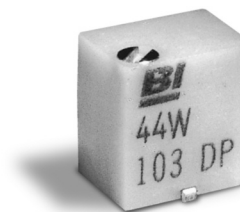


Model 44

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

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 Min.
Resolution	Essentially infinite
Contact Resistance Variation	1% or 3 Ohms 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 sawtooth, 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. Max. (1% ΔRT)
Solderability	Per MIL-STD-202, Method 208

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

Pb **RoHS 2**
compliant

BI Technologies Corporation
4200 Bonita Place, Fullerton, CA 92835 USA
Phone: 714 447 2345 Website: www.bitechnologies.com
September 5, 2013



Model 44

MECHANICAL

Mechanical Stops	Clutch action, both ends
Torque, Starting	3 oz.-in. Max. (0.021 N-m)
Weight	0.01 oz. nominal (0.3 grams)

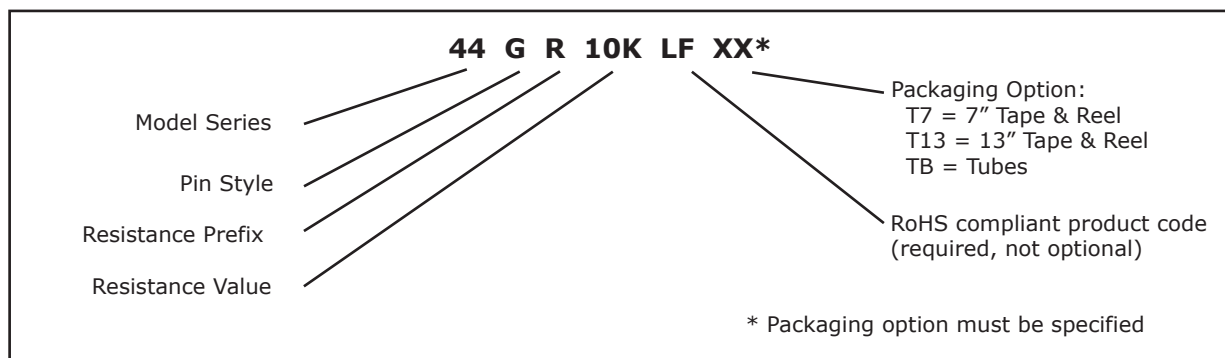
PACKAGING

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

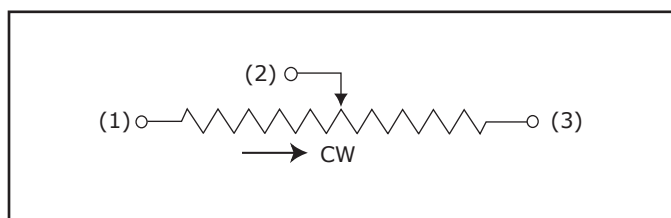
13" Reel				7" Reel	
	Pin Style	G & J	W	G & J	W
Tape	Width =	12 mm	16 mm	12 mm	16 mm
	Sprocket =	4 mm pitch	4 mm pitch	4 mm pitch	4 mm pitch
	Capacity =	1,000 units	1,000 units	500 units	250 units
Reel	Diameter =	13" (330.2 mm)		7" (178 mm)	

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

ORDERING INFORMATION



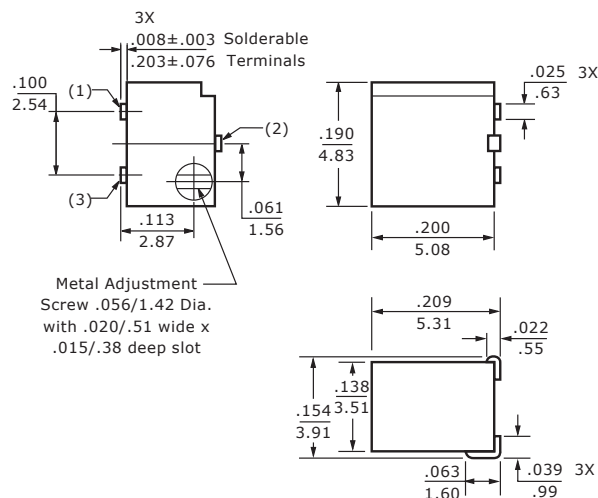
CIRCUIT DIAGRAM



Model 44

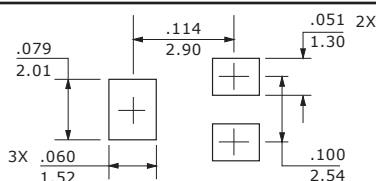
TOP ADJUSTMENT

Model 44W

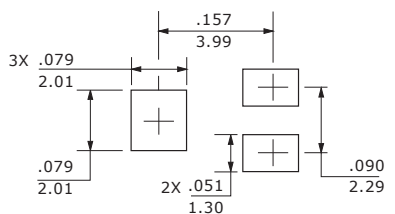


SOLDER PAD LAYOUT

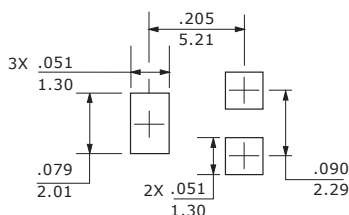
Model 44W



Model 44J

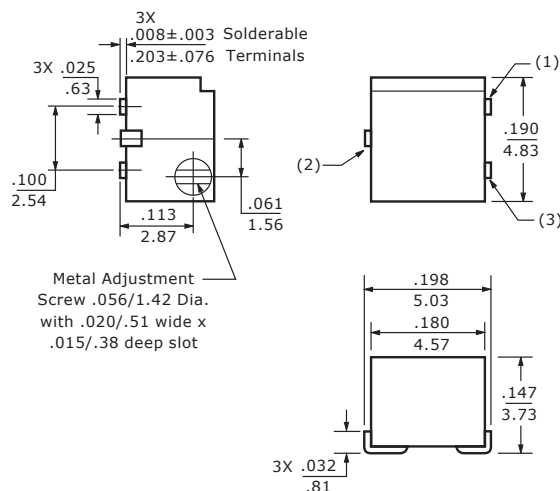


Model 44G

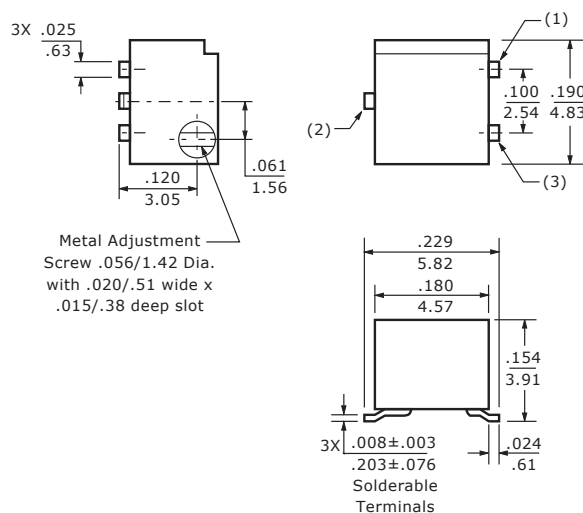


SIDE ADJUSTMENT

Model 44J



Model 44G



1. Dimensions in inch/mm
2. Tolerances ± 0.012 inch (0.30 mm) unless otherwise specified

STANDARD RESISTANCE VALUES

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

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September 5, 2013

Model 44 page 3 of 3



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