

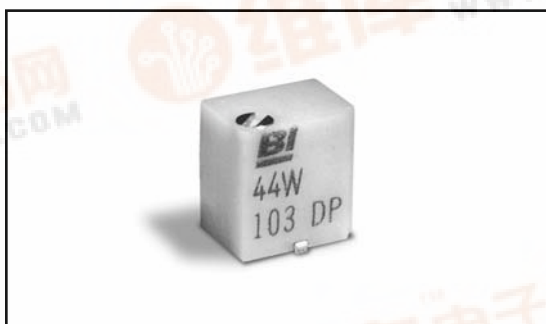
MODEL 44

4mm Square Multiturn

Surface Mount

Cermet Trimming

Potentiometer



1

ELECTRICAL

Standard Resistance Range, Ohms	10 to 2Meg
Standard Resistance Tolerance	$\pm 10\%$ (<100 Ohms = $\pm 20\%$)
Input Voltage, Maximum	300 Vdc or rms not to exceed power rating
Slider Current, Maximum	100mA or within rated power, whichever is less
Power Rating, Watts	0.25 at 85°C derating to 0 at 150°C
End Resistance, Maximum	1% or 2 Ohms, whichever is greater
Actual Electrical Travel, Turns, Nominal	9
Dielectric Strength	600Vrms
Insulation Resistance, Minimum	1,000 Megohms
Resolution	Essentially infinite
Contact Resistance Variation, Maximum	1% or 3 Ohms, whichever is greater

ENVIRONMENTAL

Seal	85°C Fluorinert® (No Leaks)
Temperature Coefficient, Maximum	$\pm 100\text{ppm}/^\circ\text{C}$ (<100 Ohms = $\pm 250\text{ppm}/^\circ\text{C}$)
Operating Temperature Range	-65°C to +150°C
Thermal Shock	5 cycles, -65°C to +150°C (2% ΔRT , 1% ΔVR)
Moisture Resistance	Ten 24 hour cycles (2% ΔRT , IR 10 Megohms Min.)
Shock, 6ms Sawtooth	100G's (1% ΔRT , 1% ΔVR)
Vibration	20G's, 10 to 2,000 Hz (1% ΔRT , 1% ΔVR)
Rotational Life	200 cycles (3% ΔRT , 1% CRV)
Load Life at 0.25 Watts	1,000 hours at 85°C (2% ΔRT , 1% CRV)
Resistance to Solder Heat	260°C for 10 sec. (1% ΔRT)
Temperature Exposure, Maximum	215°C for 3 min. (1% ΔRT)
Solderability	Per MIL-STD-202, Method 208

MECHANICAL

Mechanical Stops	Clutch action, both ends
Torque, Starting Maximum	3 oz.-in. (0.021 N-m)
Weight, Nominal	.01 oz. (0.3 grams)

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

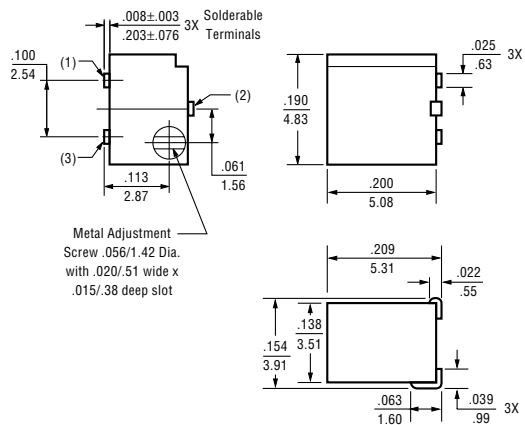


1-21

Model 44

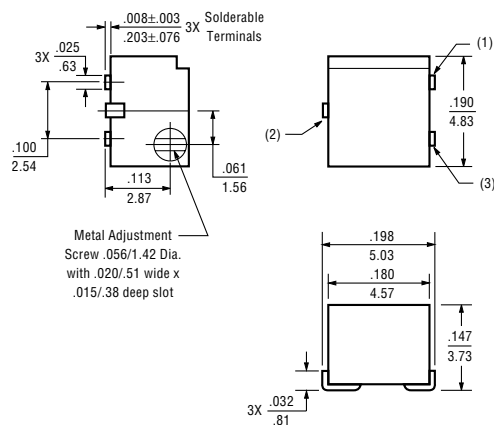
TOP ADJUSTMENT (Inch/mm)

Model 44J



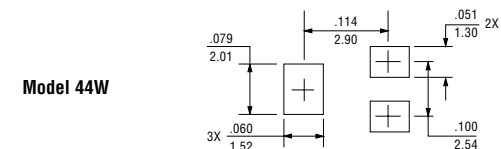
SIDE ADJUSTMENT (Inch/mm)

Model 44J

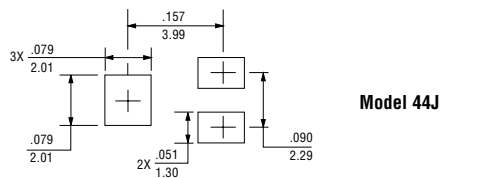


SOLDER PAD LAYOUT (Inch/mm)

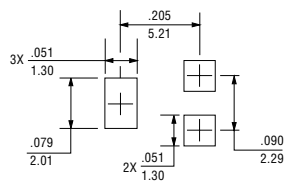
Model 44W



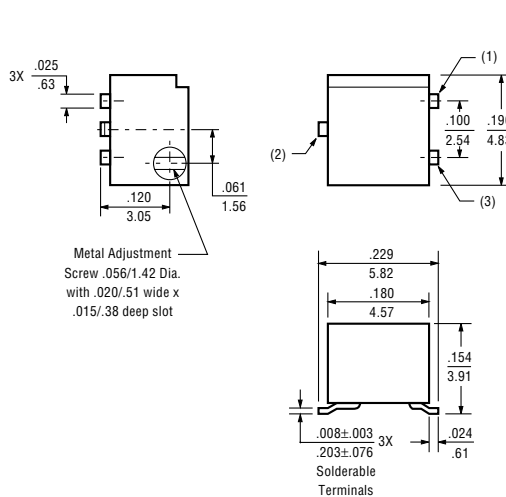
Model 44J



Model 44G



Model 44G



STANDARD RESISTANCE VALUES, OHMS

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

FEATURES AND BENEFITS

- Space saving SMD design 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, J-Hook or gull wing termination

1

PACKAGING

Standard: Embossed Tape & Reel

All units oriented with #1 pin to the right of the direction of feed.

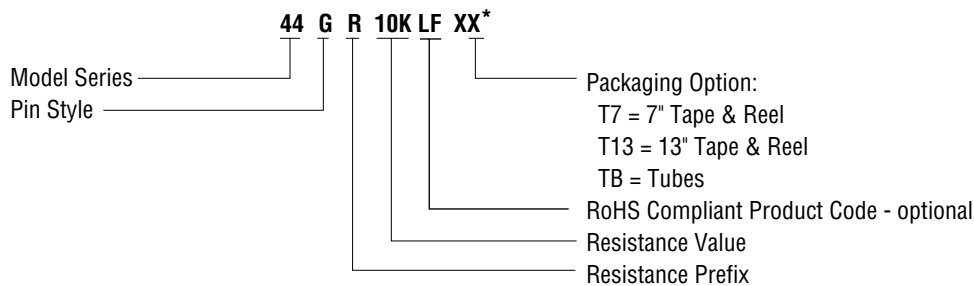
	Pin Style	13" Reel		7" Reel	
		G & J	W	G & J	W
Tape	Width	= 12 mm	16 mm	12 mm	16 mm
	Sprocket	= 4 mm Pitch	4 mm Pitch	4 mm Pitch	4 mm Pitch
	Capacity	= 1,000 Units	1,000 Units	500 Units	250 Units
Reel	Diameter	= 13" (330.2 mm)		7" (178 mm)	

Option: Anti-Static Tubes

All units oriented with #1 pin to same side.

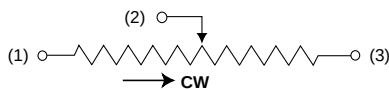
Magazine Capacity = 100 Units

ORDERING INFORMATION



* Packaging option must be specified.

CIRCUIT DIAGRAM



NOTES

Metric equivalents, based on 1 inch = 25.4mm are rounded to the same number of significant figures as in the original English units and are provided for general information only.

Tolerances unless otherwise specified:
Linear = $\pm .012$ inches (.30mm)
Angular = ± 2 degrees

