

MODEL 23G, GL & J

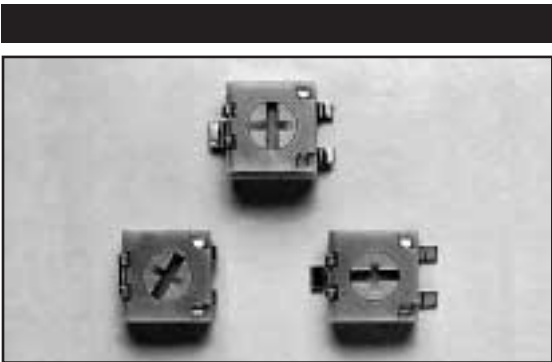
4mm Square

Sealed Single Turn

Surface Mount

Cermet Trimming

Potentiometer



FEATURES AND BENEFITS

- Space saving SMD design for the most compact board designs
- Sealed to withstand aggressive water wash
- BI quality and reliability
- Available in J-hook or gull wing termination
- T-Cross slot
- Ultra low profile

ELECTRICAL

Standard Resistance Range, Ohms	10 to 2Meg
Standard Resistance Tolerance	±20%
Input Voltage, Maximum	200 Vdc or rms not to exceed power rating
Power Rating, Watts	0.25 at 70°C derating to 0 at 125°C
End Resistance, Maximum	1% or 3 Ohms, whichever is greater
Actual Electrical Travel, Nominal	210°
Dielectric Strength	500 Vrms
Insulation Resistance, Minimum	100 Megohms
Resolution	Essentially infinite
Contact Resistance Variation, Maximum	2% or 3 Ohms, whichever is greater

MECHANICAL

Mechanical Stops	Solid
Stop Strength, Minimum	4 oz.-in. (300 gr-cm)
Torque, Maximum	2 oz.-in. (150 gr-cm)
Weight, Nominal	.005 oz. (0.07 grams)

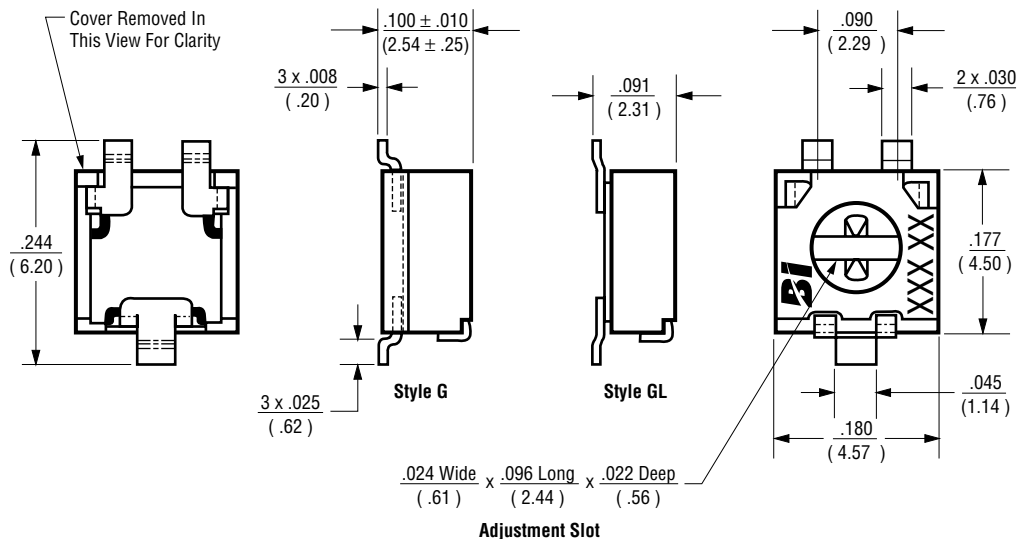
Specifications subject to change without notice.

ENVIRONMENTAL

Seal	85°C Fluorinert® (No Leaks)
Temperature Coefficient, Maximum	$\pm 100\text{ppm}/^\circ\text{C}$ (<100 Ohms, >1Meg = $\pm 150\text{ppm}/^\circ\text{C}$)
Operating Temperature Range	-55°C to +125°C
Thermal Shock	5 cycles, -55°C to +125°C (2% ΔRT , 1% ΔVR)
Moisture Resistance	Ten cycles, 240 hours (3% ΔRT)
Shock, 6ms Sawtooth	100G's (1% ΔRT , 1% ΔVR)
Vibration	20G's, 10 to 2,000 Hz (1% ΔRT , 1% ΔVR)
High Temperature Exposure	250 hours at 125°C (2% ΔRT , 2% ΔVR)
Rotational Life	100 cycles (3%)
Load Life at 0.25 Watts	1,000 hours at 70°C (3% ΔRT , 1% CVR)
Resistance to Solder Heat	260°C for 10 sec. (1% ΔRT)

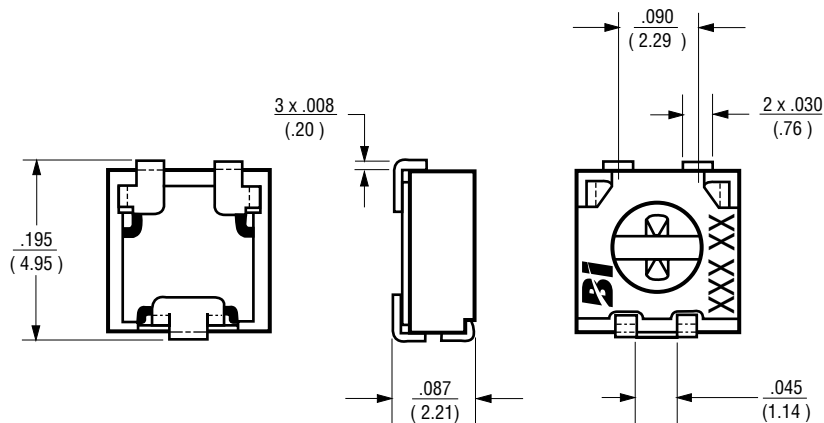
Fluorinert® is a registered trademark of 3M Company.

MODEL 23G & GL



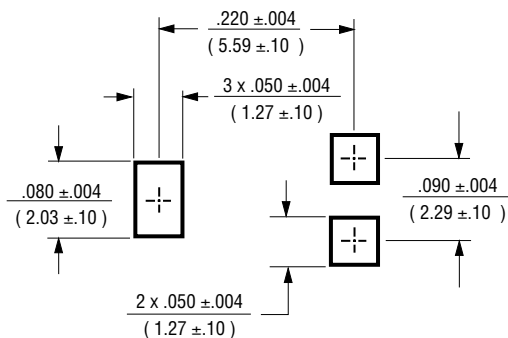
MODEL 23J

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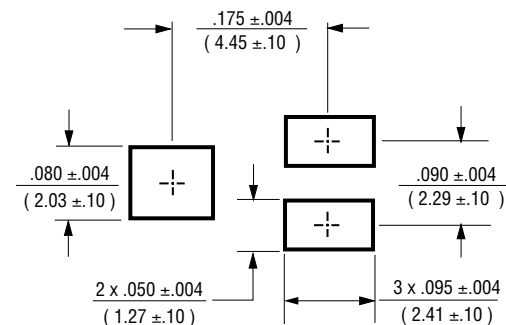


RECOMMENDED PCB LAYOUT

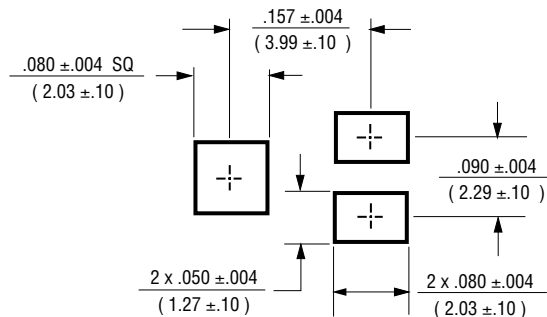
Model 23 G



Model 23 GL



Model 23 J



STANDARD RESISTANCE VALUES, OHMS

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

PACKAGING

Option:

Embossed Tape & Reel
All units oriented with #2 (slider) terminal adjacent to sprocket hole.

			7" Reel	13" Reel
Tape	Width	=	.472" (12mm)	.472" (12mm)
	Sprocket	=	.157" (4mm) pitch	.157" (4mm) pitch
	Capacity	=	500 units	3,000 units
Reel	Diameter	=	7" (178 mm)	13" (330.2 mm)

Option:

Anti-Static Tubes
All units oriented with #1 pin to same side

Magazine

Capacity

=

100 units

ORDERING INFORMATION

Standard:

23

G

R

10K

XX

*

Model Series

Pin Style

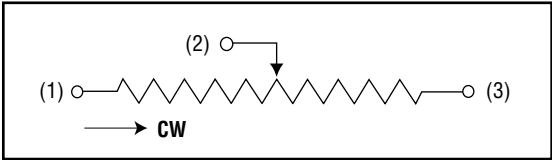
Packaging Option
T7 = 7" Tape & Reel
T13 = 13" Tape & Reel
TB = Tubes

Resistance Value

Resistance Prefix

* Packaging option must be specified.

CIRCUIT DIAGRAM



NOTES

English equivalents are based on 1 inch = 25.4mm and are provided for general information only.

Tolerances unless otherwise specified:
Linear = ± .010 inches (.25 mm.)

DIMENSIONS
INCH
mm

THIRD ANGLE
PROJECTION