

AVAILABLE THROUGH DISTRIBUTION



BOURNS®

Features

- Surface Mount / Single Turn / Cermet Industrial / Sealed
- Compatible with surface mount manufacturing processes
- Compatible with popular vacuum pick-and-place equipment

- J-hook, gull-wing and pinned configurations
- Side adjust available
- Cross-slot rotor (Z Style)
- Meets EIA/EIAJ/IPC/VRCI SMD standard trimmer designs

3314 - 4mm Square Trimming Potentiometer

Electrical Characteristics

Standard Resistance Range10 ohms to 2 megohms (see standard resistance table)
 Resistance Tolerance±20% std. (tighter tolerance available)
 End Resistance.....1% or 2 ohms max. (whichever is greater)
 Contact Resistance Variation1% or 3 ohms
 Resolution.....Infinite
 Insulation Resistance500 vdc. 100 megohms min.
 Dielectric Strength
 Sea Level.....500 vac (1 minute)
 Adjustment Angle210° nom.

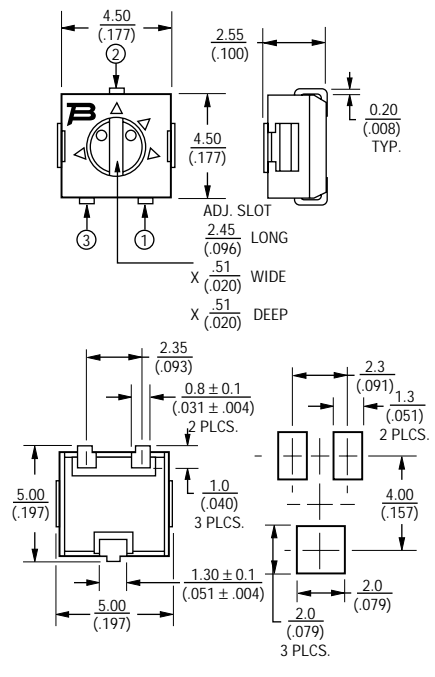
Environmental Characteristics

Soldering Heat260°C, 10 seconds, TRS ±1%
 Power Rating (300 volts max.)
 70°C.....0.25 watt
 125°C.....0 watt
 Temperature Range-55°C to +125°C
 Temperature Coefficient±100ppm/°C
 Humidity90-98% RH, 10 cycles, 240 hours
 Vibration20G TRS ±1%; VRS ±1%
 Shock100G TRS ±1%; VRS ±1%
 Load Life
(@ 70°C Rated Power 1000 Hours) TRS ±3%
 Rotational Life100 cycles TRS ±3%
 Thermal Shock5 cycles TRS ±2%; VRS ±1%

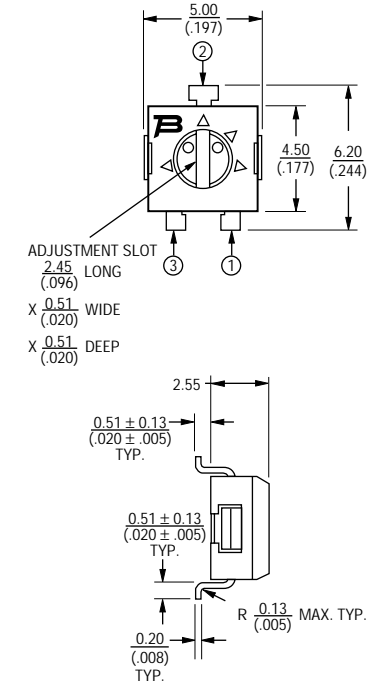
Physical Characteristics

Mechanical Angle240° nom.
 Torque180g-cm typical
 Stop Strength300g-cm typical
 Pushover Strength (Z Style)2 kilograms (4.4 lbs.) minimum
 WeightApproximately 0.01 oz.
 MarkingManufacturer's code, resistance code and date code
 WiperPositioned at 50% nominal
 Flammability.....U.L. 94V-0
 Standard Packaging
 J & G500 pcs./7" reel
 Z200 pcs./7" reel
 H50 pcs./tube
 Adjustment ToolH-90

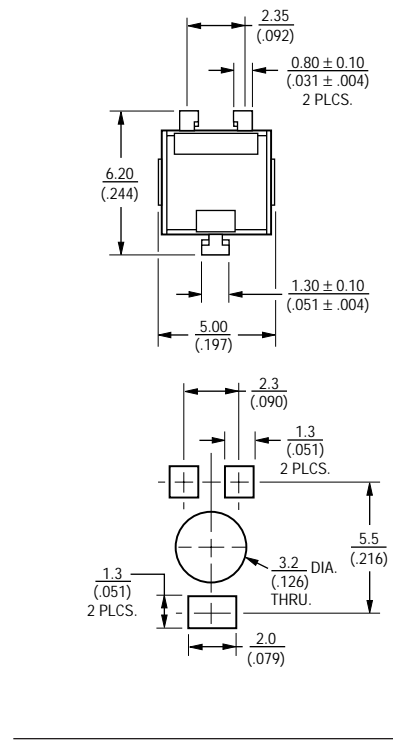
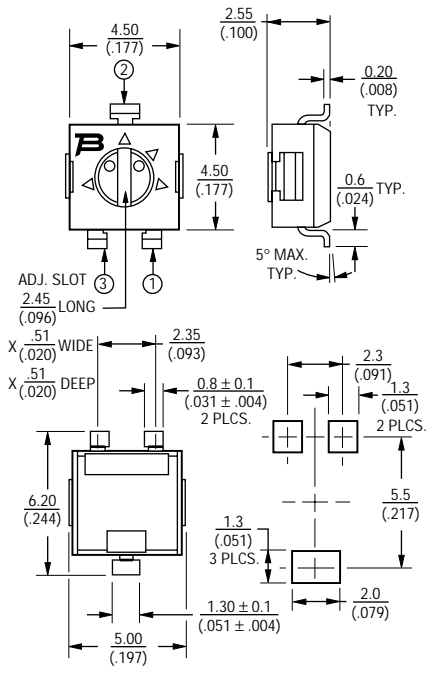
3314J-1



3314R-1



3314G-1



DIMENSIONS ARE: METRIC (INCHES)

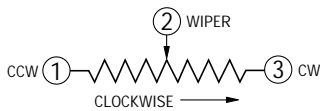
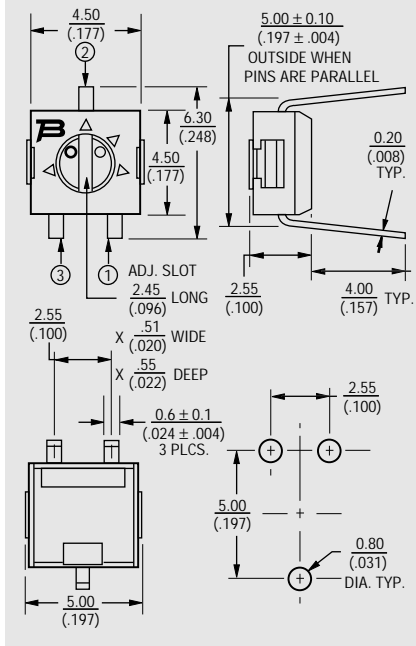
Additional Features

- Model 3314 has been approved for use by DESC on drawings 88039 (3314J) and 90027 (3314G)

3314 - 4mm Square Trimming Potentiometer

BOURNS®

3314H-1



TOLERANCES: ± 0.25 (.010) EXCEPT WHERE NOTED

DIMENSIONS ARE: METRIC (INCHES)

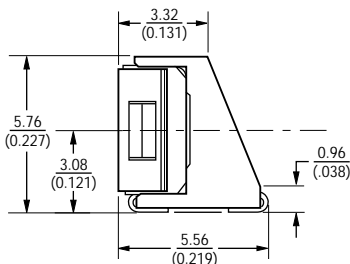
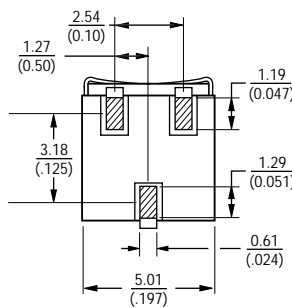
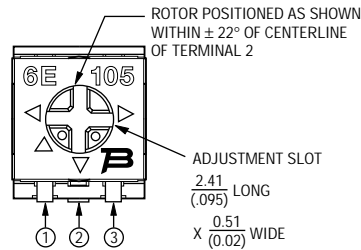
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How To Order

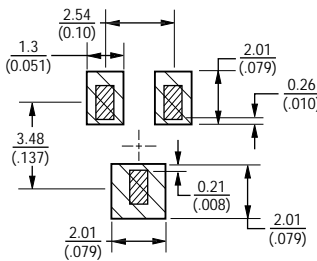
3314 J - 1 - 502 E

- Model _____
 Style _____
 Standard or Modified Product Indicator
 -1 = Single Slot
 -2 = Cross Slot Rotor (Style Z is standard, Styles J, G & H are available)
 Resistance Code _____
 Embossed Tape Designer (Applicable to Styles J, G and S only)
 Styles J & G: 500 pcs. / 7" reel (standard)
 Style Z: 200 pcs. / 7" reel (standard)
 Consult factory for other available options.

3314Z



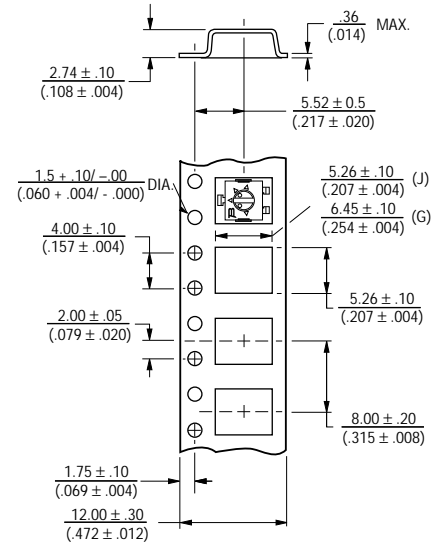
RECOMMENDED PCB LAYOUT



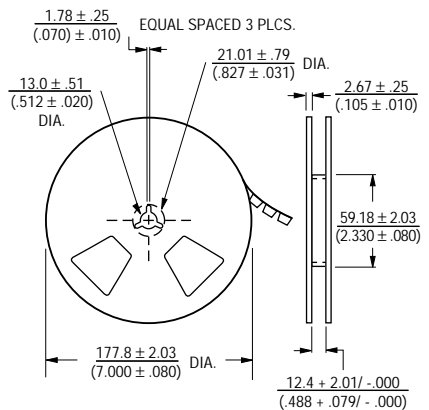
Packaging Specifications

(J, G Styles)

TAPE



REEL



Meets EIA specification 481.

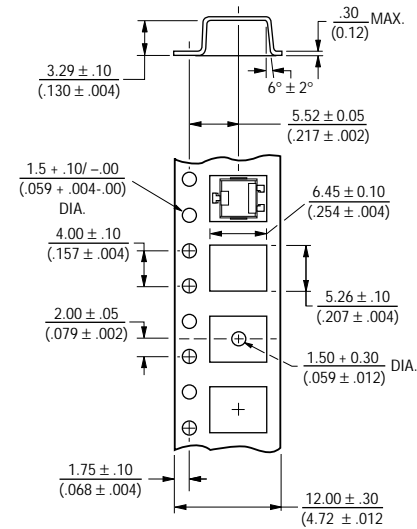
3314 - 4mm Square Trimming Potentiometer



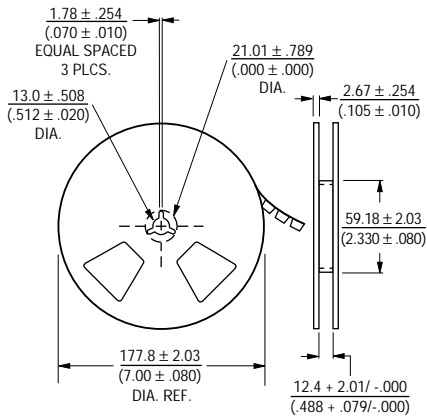
Packaging Specifications

(R Style)

TAPE



REEL

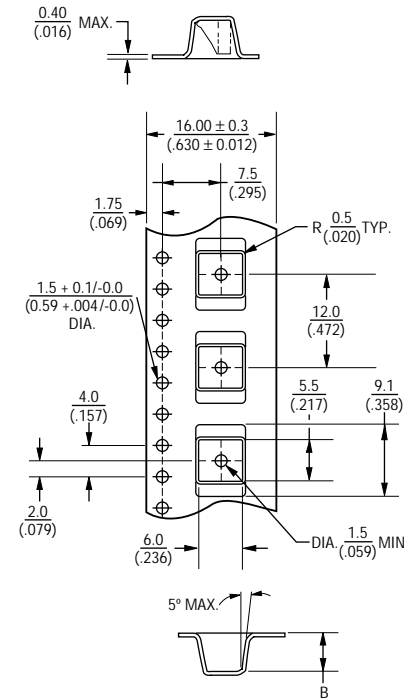


Meets EIA specification 481.

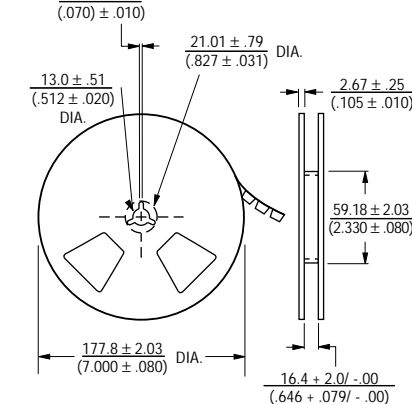
Packaging Specifications

(Z Style)

TAPE



REEL



TOLERANCES: ± 0.30 (.012) EXCEPT WHERE NOTED

DIMENSIONS ARE: $\frac{\text{METRIC}}{\text{(INCHES)}}$

Standard Resistance Table

Resistance (Ohms)	Resistance Code
10	100
20	200
50	500
100	101
200	201
500	501
1,000	102
2,000	202
5,000	502
10,000	103
20,000	203
50,000	503
100,000	104
200,000	204
250,000	254
500,000	504
1,000,000	105
2,000,000	205

Popular values listed in boldface. Special resistances available.

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