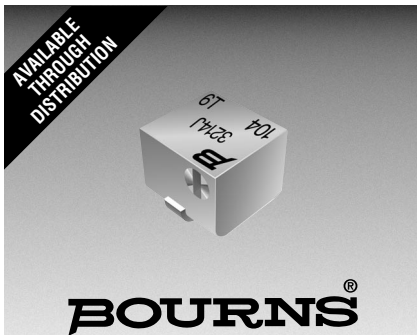




Features

- Surface Mount 4mm Square / Multiturn Cermet / Industrial / Sealed
- Sealed to withstand board wash processing
- Pick and place centering design, with flush adjustment

- 4mm design meets EIA/EIAJ/IPC/VRCI SMD standard trimmer footprint
- Top and side adjust styles
- J-hook, and gull-wing
- Patent #5047746 advanced drive/wiper mechanism

3214 - 5-Turn Trimming Potentiometer

Electrical Characteristics

Standard Resistance Range

.....10 to 2 megohm
(see standard resistance table)
Resistance Tolerance±10% std.
Absolute Minimum Resistance
.....1% or 2.0 ohms
(whichever is greater)
Contact Resistance Variation
.....3% or 3 ohms max.
Resolution.....Essentially Infinite
Insulation Resistance500 vdc.
.....100 megohms min.
Dielectric Strength
Sea Level600 vac (1 minute)
Adjustment Angle.....5 turns nom.

Environmental Characteristics

Power Rating (300 volts max.)

85°C0.25 watt
150°C0 watt
Temperature Range-65°C to +150°C
Temperature Coefficient±100ppm/°C
HumidityMIL-STD 202 Method 106
TRS ±2%; IR 10 megohms
Vibration20G TRS±1%; VRS ±1%
Shock100G TRS ±1%; VRS±1%
Load Life
.....@ 85°C rated power 1,000 hours
TRS 3 ohms or 3% (whichever is greater)
Rotational Cycling200 cycles
TRS 3 ohms or 3% (whichever is greater)
Thermal Shock5 cycles
TRS±2%; VRS±1%

Physical Characteristics

Mechanical StopWiper idles
Torque180g-cm max.
WeightApproximately 0.01 oz.
MarkingManufacturer's code,
resistance code and date code
SolderabilityPer MIL-STD-202,
Method 208
WiperSet at 50% nominal
FlammabilityUL94V0
Pushover Strength
J, G4.4 lbs.
W, X2.2 lbs.
Adjustment ToolH-91

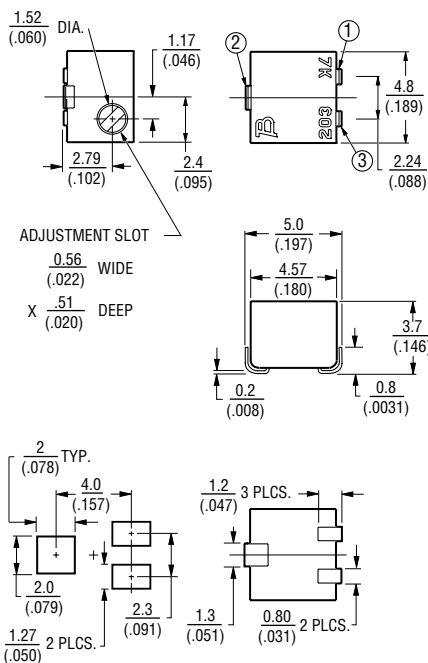
How To Order

3214 J - 1 - 502 E

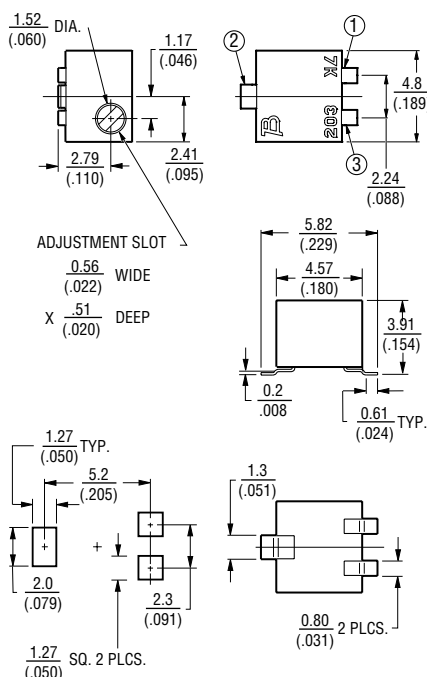
Model _____
Style _____
Standard or Modified _____
Product Indicator _____
-1 = IR Reflow (standard)
*-2 = Wave Solderable
-FW5 = .070" ± .010" Shaft Extension
Resistance Code _____
Embossed Tape Designator _____
E = Style J, G: 500 pcs./7" reel (standard)
E = Style W: 250 pcs./7" reel (standard)
E = Style X: 200 pcs./7" reel (standard)
G = Style J, G: 1500 pcs./13" reel (FW5)
G = Style W, X: 600 pcs./13" reel (FW5)

Consult factory for other available options.
* -2 has a treated stainless steel shaft

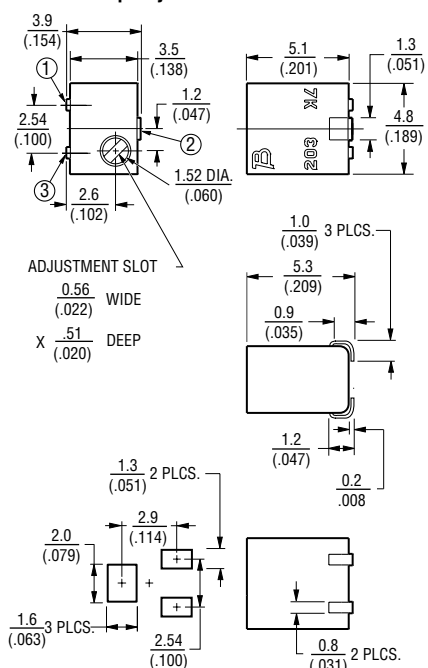
3214J Side Adjust



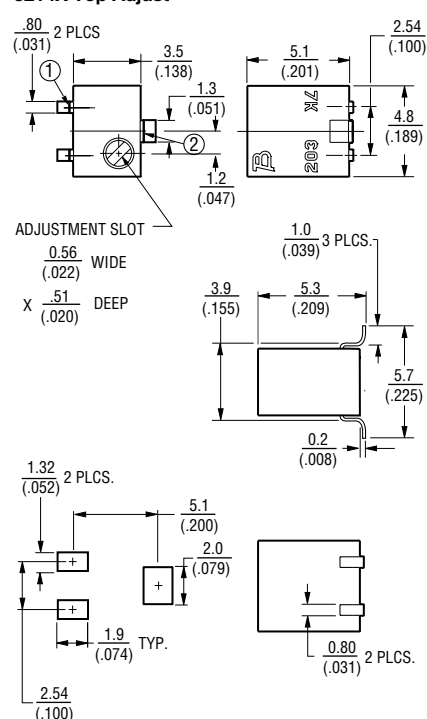
3214G Side Adjust



3214W Top Adjust



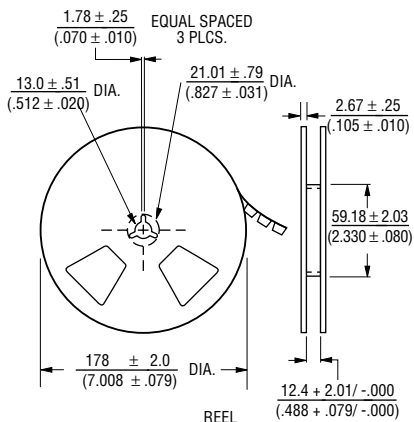
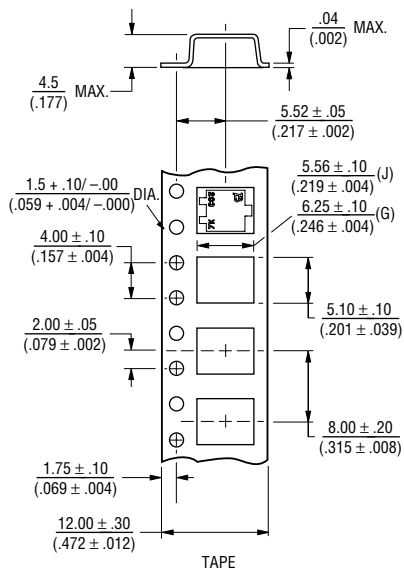
3214X Top Adjust



3214 - Packaging Specifications

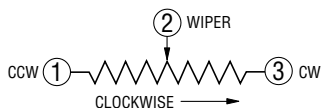
BOURNS®

J & G Styles

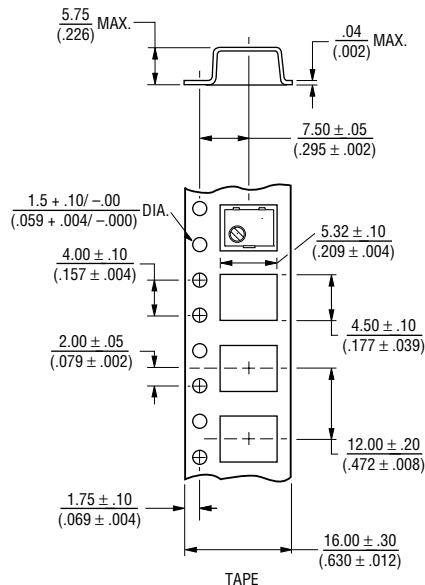


Cover tape peel strength:
Meets EIA specification 481.

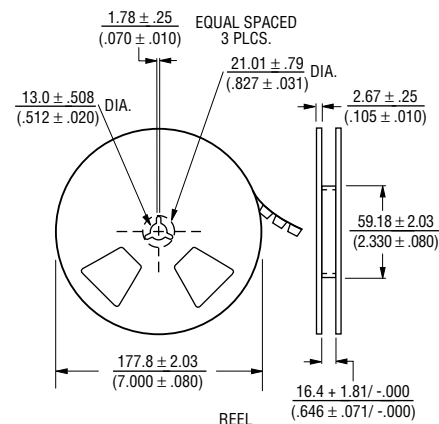
Units packaged 500 pieces per reel.



W Style



W & X Style Reel



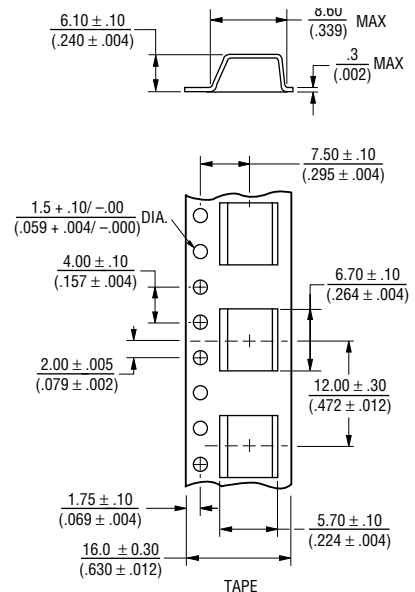
Cover tape peel strength:
Meets EIA specification 481.

Units packaged 250 pieces per reel. (w)
Units packaged 200 pieces per reel (x)

TOLERANCES: ± 0.25 (.010) EXCEPT WHERE NOTED

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

X Style



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
500,000	504
1,000,000	105
2,000,000	205

Popular values listed in boldface. Special resistances available.

SHADED AREAS TYPICALLY NOT STOCKED BY DISTRIBUTORS AND NOT RECOMMENDED FOR NEW DESIGNS.