

# SURFACE MOUNT 4MM SQUARE / SINGLE-TURN CERMET / INDUSTRIAL / OPEN FRAME

- Two cross-slot rotor designs suitable for automatic adjustment equipment
- Supplied in 12mm embossed tape, compatible with automatic assembly equipment
- Choice of two packaging orientations
- Recommended for reflow solder processing only

## Model 3304

® Trimming Potentiometer

FOR ADDITIONAL STYLES, SEE FOLLOWING PAGE.

### Electrical Characteristics

Standard Resistance Range .....100 to 2 megohms  
 (see standard resistance table)  
 Resistance Tolerance .....±25% std.  
 End Resistance .....5% max.  
 Contact Resistance Variation  
 (Voltage Divider)  
 Styles A,B,W & X .....5% max.  
 Resolution .....Infinite  
 Adjustment Angle .....230° nominal

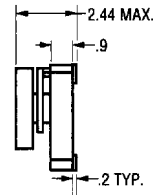
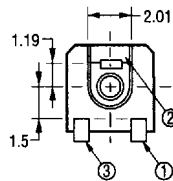
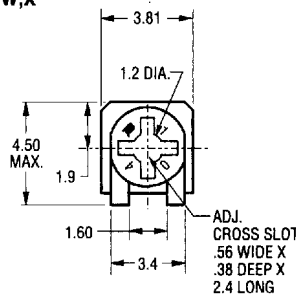
### Environmental Characteristics

Power Rating (50 volts max.)  
 70°C .....0.2 watt  
 Temperature Range .....-55°C to +125°C  
 Temperature Coefficient  
 10 Ohms to 200 Ohms .....±250ppm/°C  
 500 Ohms and above .....±200ppm/°C  
 Humidity .....MIL-STD-202 Method 103  
 500 hours  
 (5% ΔTR) Styles A,B,W & X  
 SRS ±5% Styles C & D  
 Vibration .....30G (2% ΔTR; 2% ΔVR)  
 Styles A,B,W & X  
 SRS ±5% Styles C & D  
 Shock .....100G (2% ΔTR; 2% ΔVR)  
 Styles A,B,W & X  
 SRS ±5% Styles C & D  
 Load Life  
 .....1,000 hours 0.2 watt @ 70°C  
 (5% (ΔTR) Styles A,B,W & X  
 SRS ±5% Styles C & D  
 Rotational Life .....20 cycles  
 (15% ΔTR)

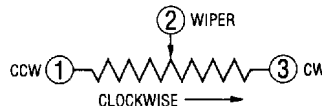
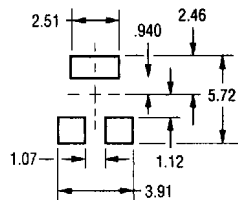
### Physical Characteristics

Torque (Operating) .....3.0 oz-in. max.  
 Mechanical Angle .....Continuous  
 Marking .....Manufacturer's trademark,  
 resistance code, manufacturer's  
 full part number and date code  
 on packaging  
 Terminals .....Solder coated  
 Wiper .....Positioned at 50% nominal  
 Standard Packaging  
 .....750 pcs./7" reel  
 Reflow solder processing  
 recommended

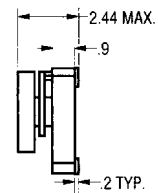
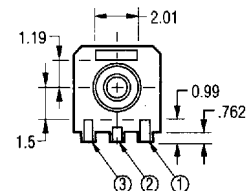
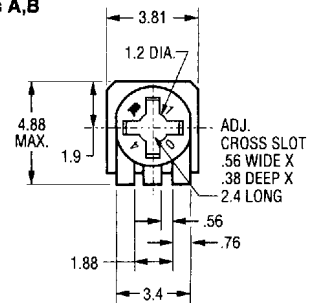
3304 Voltage Divider  
 3-Terminal  
 3-Pad  
 Styles W,X



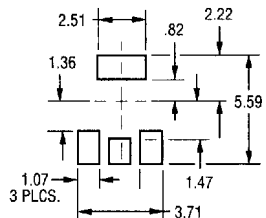
SUGGESTED PWB LAYOUT



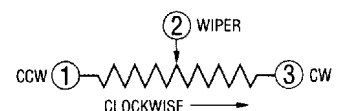
3304 Voltage Divider  
 3-Terminal  
 4-Pad  
 Styles A,B



SUGGESTED PWB LAYOUT



TOLERANCES: ± 0.30 EXCEPT WHERE NOTED  
 DIMENSIONS: MM

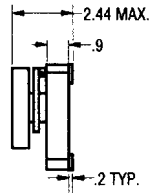
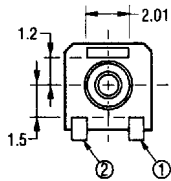
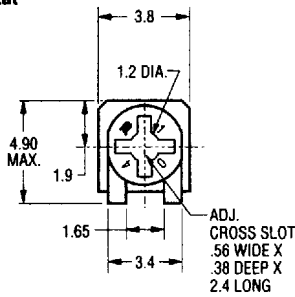


# Model 3304

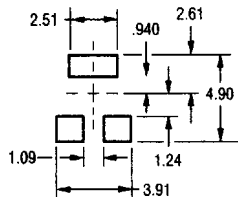
**B** Trimming Potentiometer

FOR PRODUCT SPECIFICATIONS, SEE PREVIOUS PAGE.

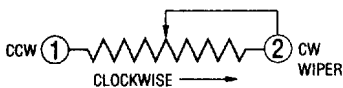
**3304C-1, 3304D-1**  
2-Terminal  
3-Pad  
Rheostat



SUGGESTED PWB LAYOUT

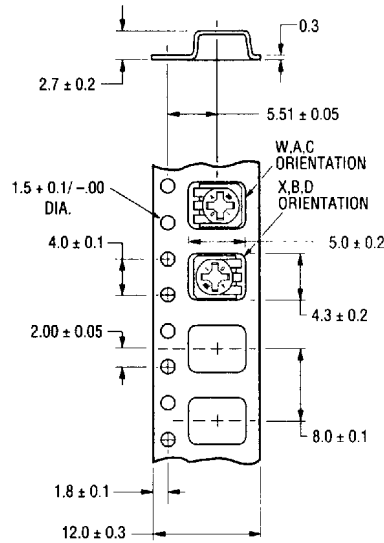


TOLERANCES:  $\pm 0.30$  EXCEPT WHERE NOTED  
DIMENSIONS: MM

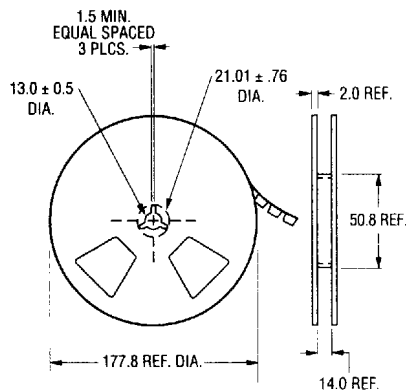


## PACKAGING SPECIFICATIONS

TAPE



REEL



750 pieces per reel.  
Meets EIA specification RS-481.

## STANDARD RESISTANCE TABLE

Resistance (Ohms)	-1 Resistance Code	-2 Resistance Code
10	100	A1
20	200	21
50	500	51
100	101	A2
200	201	22
500	501	52
1,000	102	A3
2,000	202	23
5,000	502	53
10,000	103	A4
20,000	203	24
50,000	503	54
100,000	104	A5
200,000	204	25
500,000	504	55
1,000,000	105	A6
2,000,000	205	26

## HOW TO ORDER

**3304 X - 1 - 103 E**

Model \_\_\_\_\_  
Style \_\_\_\_\_  
Orientation of Parts In Tape:  
Styles W,A,C - Terminals Toward Sprocket Holes  
Styles X,B,D - Terminals Away From Sprocket Holes  
Product Indicator \_\_\_\_\_  
-1 = Standard Product  
Resistance Code \_\_\_\_\_  
Embossed Tape Designator \_\_\_\_\_  
E = 750 pcs./7" reel (-1 standard)  
500 pcs./7" reel (-2 standard)  
G = 3000 pcs./13" reel (-1 optional)  
Consult factory for other available options.