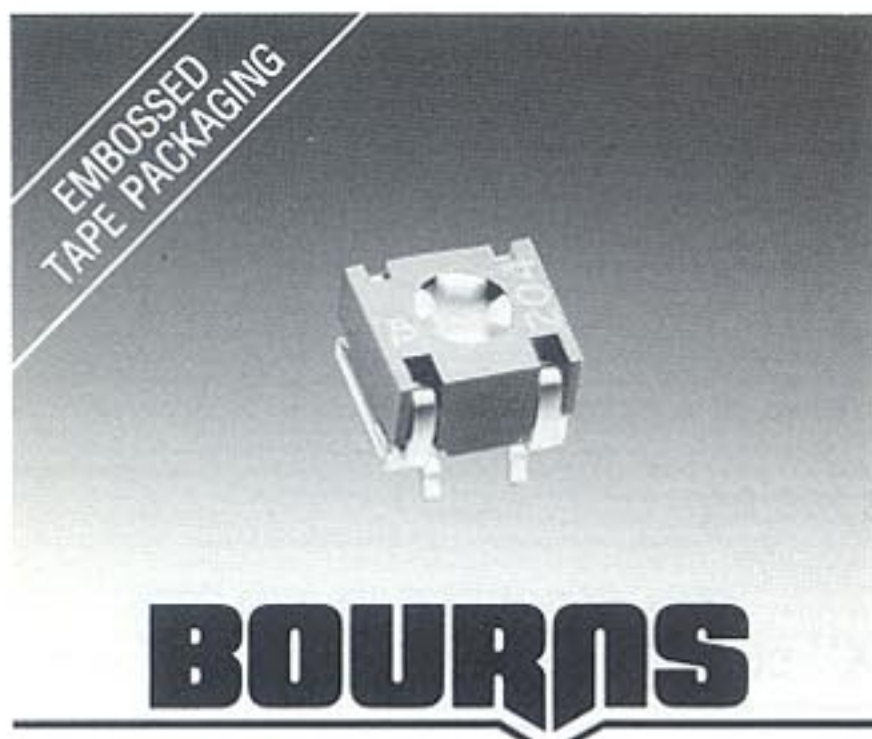




BOURNS

Model 3335
Trimming Potentiometer

SMD 5MM SQUARE / SINGLE-TURN CERMET / INDUSTRIAL / SEALED

- Available in 3 and 4 pad SMD design or thru-hole
- Auto adjust rotor design, packaged in 12mm embossed tape, compatible with automatic placement equipment
- Superior lead frame construction
- Recommended for reflow solder processing

OBSOLETE

Electrical Characteristics

Standard Resistance Range

..... 10 to 500,000 ohms
(see standard resistance table)

Resistance Tolerance..... $\pm 10\%$ std.
(closer tolerance available)

Absolute Minimum Resistance

..... 1% or 2 ohms max.
(whichever is greater)

Contact Resistance Variation

..... 3.0% or 3 ohms
(whichever is greater)

Adjustability

Voltage..... $\pm 0.05\%$

Resistance..... $\pm 0.15\%$

Resolution..... Infinite

Insulation Resistance..... 500 vdc.
1,000 megohms min.

Dielectric Strength

Sea Level..... 600 vac

80,000 feet..... 250 vac

Adjustment Travel..... 240° nom.

Environmental Characteristics

Maximum Exposure (Temp/Time)

..... +215°C/3 min.

Power Rating (100 Volts Max.)

85°C..... 0.2 watt

150°C..... 0 watt

Temperature Range

..... -55°C to +150°C

Temperature Coefficient

..... $\pm 100\text{ppm}/^\circ\text{C}$ max.

Seal Test..... 85°C Fluorinert*

Humidity..... MIL-STD-202

Method 103 (96 hours)

(3% ΔTR , 10 megohms min.)

Vibration..... 30G (1% ΔTR , 1% ΔVR)

Shock..... 100G (1% ΔTR , 1% ΔVR)

Load Life

..... 1,000 hours 0.2 watt @ 85°C
(3% ΔTR , 3% CRV)

Mechanical Life..... 200 cycles
(4% ΔTR , 3% CRV)

Physical Characteristics

Mechanical Angle..... 270° nom.

Torque..... 3.0 oz-in. max.

Stop Strength..... 4.0 oz-in. min.

Terminals..... Solderable pins

Weight..... 0.02 oz.

Marking..... Manufacturer's

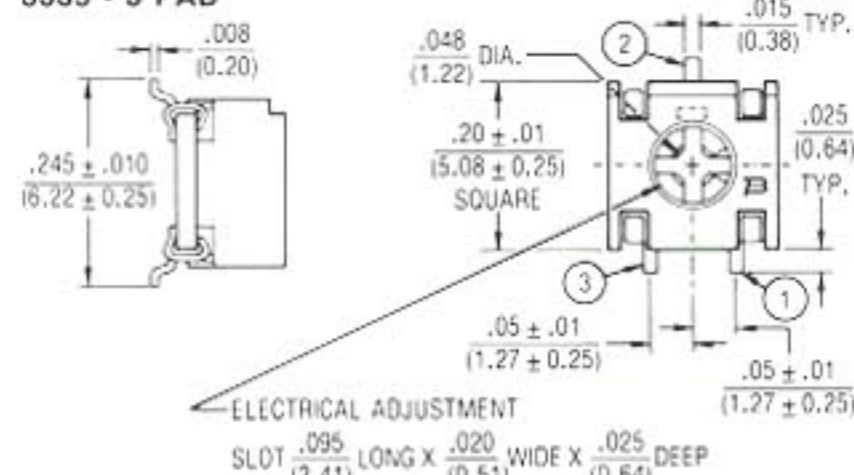
trademark, resistance code,

(model number, style, resistance

code and date code on packaging)

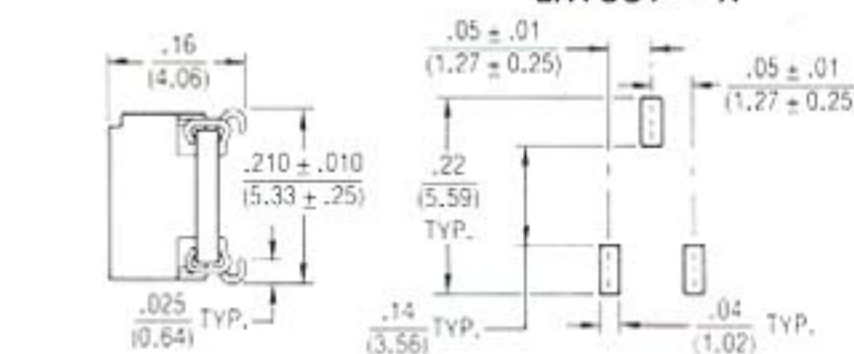
Packaging..... 500 pieces/7" reel

3335 - 3 PAD



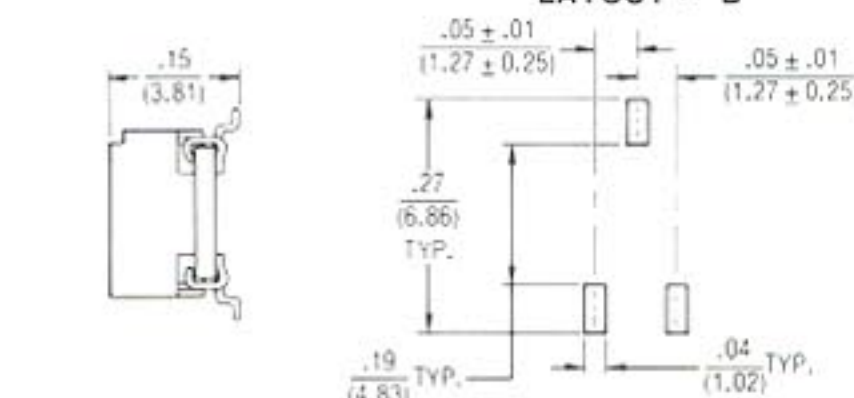
3335A

RECOMMENDED PCB
LAYOUT - "A"

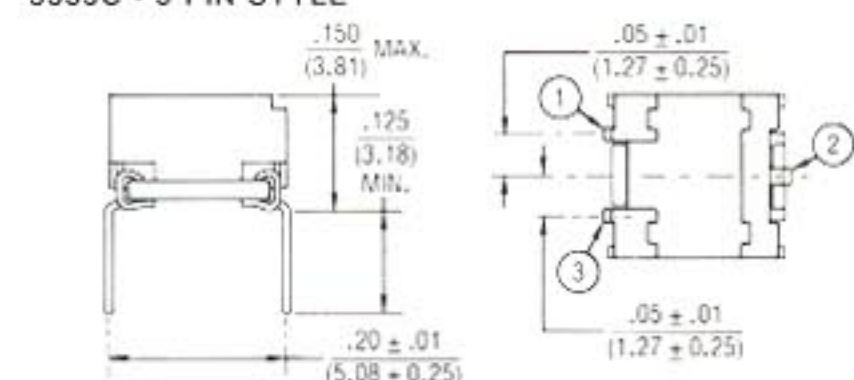


3335B

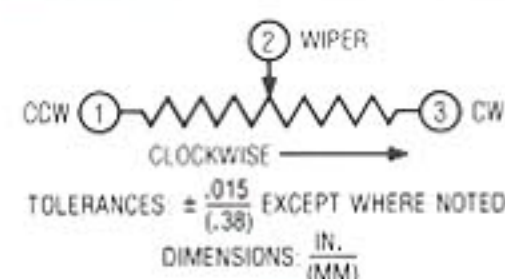
RECOMMENDED PCB
LAYOUT - "B"



3335C - 3 PIN STYLE



STANDARD PACKAGING PLASTIC TRAYS



HOW TO ORDER

3335 W - 1 - 103 E

Model.....

Style.....

Standard Product.....

Resistance Code.....

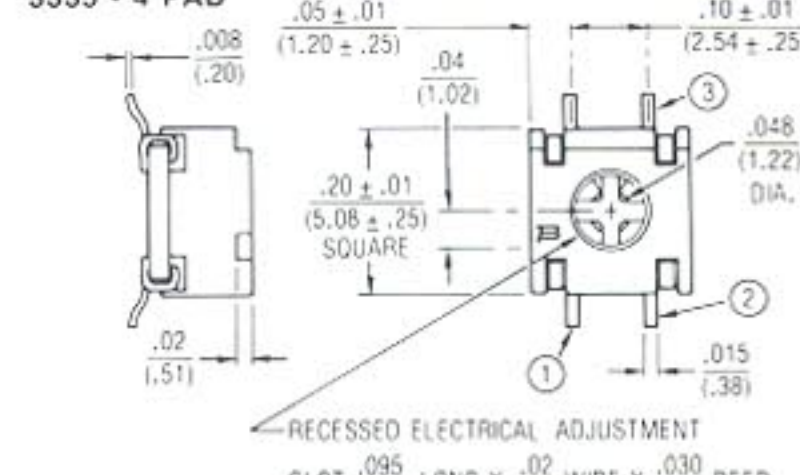
•First 2 significant digits of value

•Third digit represents number of zeros

Embossed Tape Designator.....

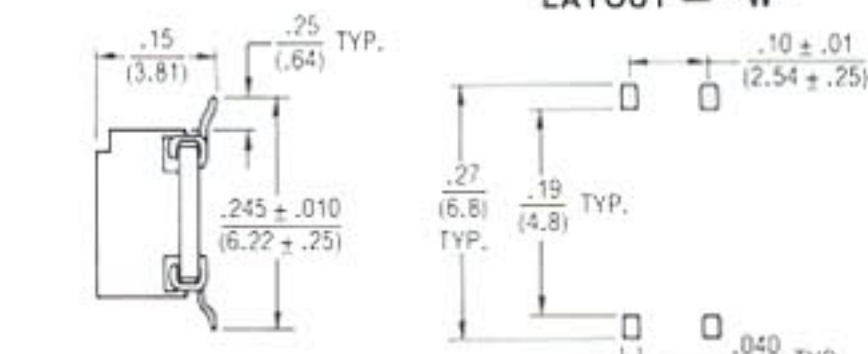
("C" model available only in plastic trays)

3335 - 4 PAD



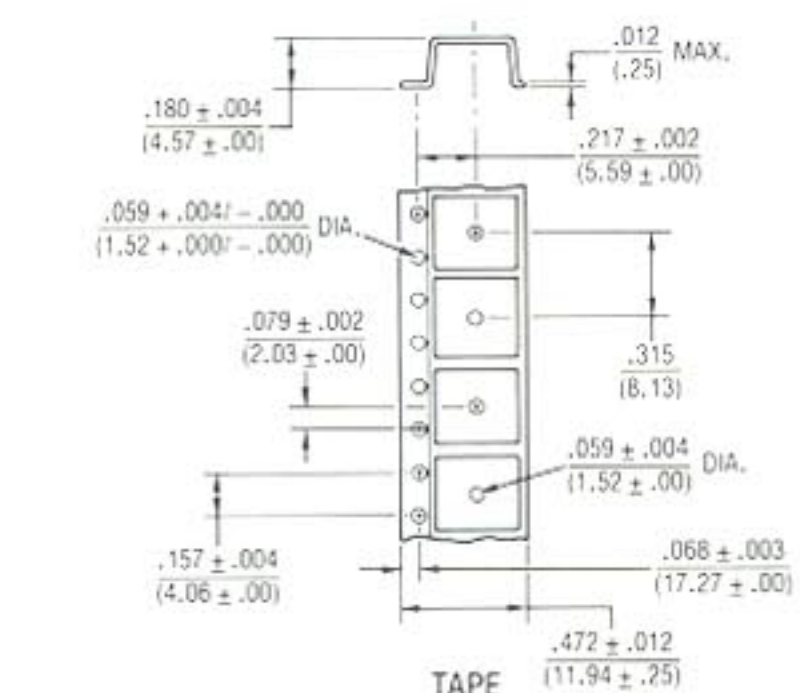
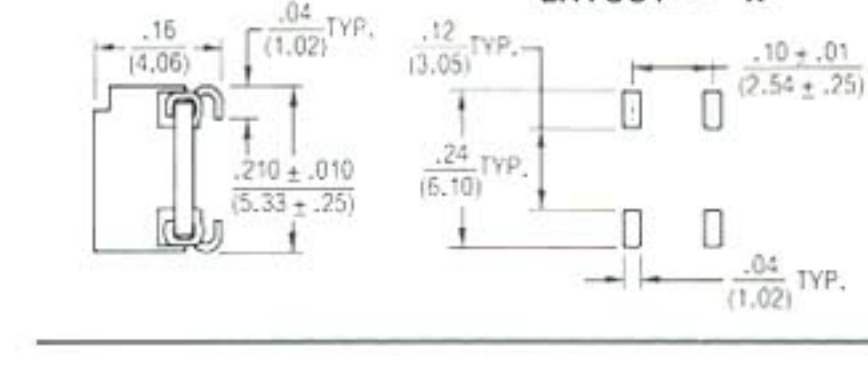
3335W

RECOMMENDED PCB
LAYOUT - "W"



3335X

RECOMMENDED PCB
LAYOUT - "X"



Reel dimensions same as 3304, see page 4.

STANDARD RESISTANCE TABLE

Resistance		Resistance	
(Ohms)	Code	(Ohms)	Code
10	100	10,000	103
20	200	20,000	203
50	500	25,000	253
100	101	50,000	503
200	201	100,000	104
500	501	200,000	204
1,000	102	250,000	254
2,000	202	500,000	504
5,000	502		

Special resistances available from 10 to 500,000 ohms.

Specifications are subject to change without notice.

*Fluorinert is a registered trademark of 3M Company.