



## MODEL 3272

### .350 Square Multiturn Surface Mount Trimming Potentiometer



#### FEATURES

- Exceptional setting stability after high temperature exposure (215°C/3 minutes)
- High temperature construction suitable for reflowed solder application.
- Stable, infinite resolution cermet element.
- 0.25 watt power rating at 85°C.
- Low temperature coefficient;  $\pm 100$  ppm/°C
- Outstanding humidity resistance.
- Sealed to withstand wave soldering or vapor phase reflow.
- Four chevron shaft seal
- Multi-wire wiper to minimize CRV

#### SPECIFICATIONS\*

##### Electrical Characteristics

|                              |                                                          |
|------------------------------|----------------------------------------------------------|
| Standard Resistance Range    | 100 ohms to 1 megohm<br>(see standard part number table) |
| Resistance Tolerance         | $\pm 10\%$ standard<br>(closer tolerance available)      |
| Absolute Minimum Resistance  | 1 ohm maximum                                            |
| Contact Resistance Variation | 1.0% or 1 ohm<br>(whichever is greater)                  |
| Adjustability                |                                                          |
| Voltage                      | $\pm 0.05\%$                                             |
| Resistance                   | $\pm 0.1\%$                                              |
| Resolution                   | Infinite                                                 |
| Insulation Resistance        | 500 VDC,<br>1000 megohms minimum                         |
| Dielectric Strength          |                                                          |
| Sea Level                    | 600 VAC                                                  |
| 80,000 feet                  | 250 VAC                                                  |

##### Environmental Characteristics

|                                                         |                 |
|---------------------------------------------------------|-----------------|
| Maximum Exposure (Temp./Time)                           | 215°C/3 minutes |
| Setting Stability<br>(after high temperature exposure): |                 |
| Total Resistance Shift                                  | 1%              |
| Voltage Ratio Shift                                     | 0.75%           |

##### Power Rating (300 volts maximum)

|       |           |
|-------|-----------|
| 85°C  | 0.25 watt |
| 150°C | 0 watt    |

##### Temperature Range

-65°C to +150°C

##### Temperature Coefficient

$\pm 100$  ppm/°C maximum

##### Humidity

MIL-STD-202 Method 106  
IR 100 megohms minimum

##### Seal Test

85°C Fluorinert\*\*

##### Vibration

30G

##### Shock

100G

##### Load Life

1000 hours .25 watt @ 85°C

##### Mechanical Life

200 cycles

##### Physical Characteristics

Mechanical Angle 12 turn nominal

Torque 3.0 oz-in. maximum

Mechanical stops wiper idles

Terminals solderable leads

Weight Approximately 0.02 oz

Marking

Manufacturer's name

Resistance value

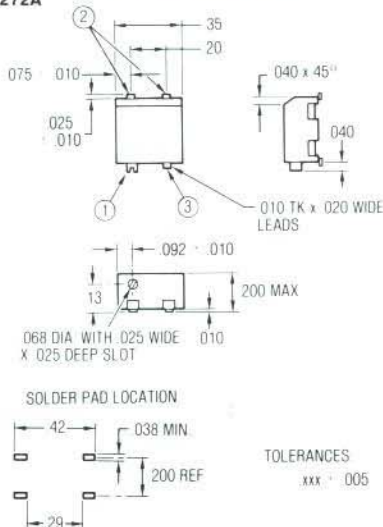
Terminal numbers

Date code

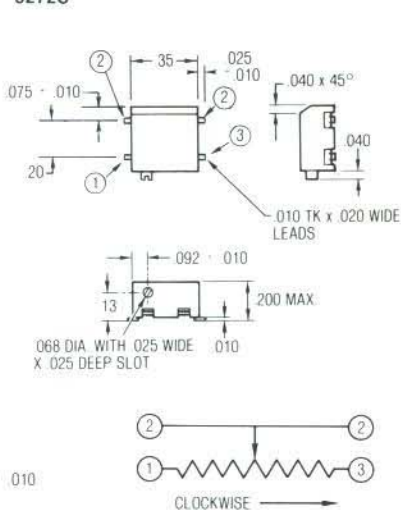
Manufacturer's model number

and style

3272A



3272C



**OBSOLETE**

\*Specifications subject to change without notice

\*\*"Fluorinert" is a registered trademark of 3M Co.

#### STANDARD PART NUMBER TABLE

| Resistance (Ohms) | 3272A       |
|-------------------|-------------|
| 100               | 3272A-1-101 |
| 200               | 3272A-1-201 |
| 500               | 3272A-1-501 |
| 1,000             | 3272A-1-102 |
| 2,000             | 3272A-1-202 |
| 5,000             | 3272A-1-502 |
| 10,000            | 3272A-1-103 |
| 20,000            | 3272A-1-203 |
| 25,000            | 3272A-1-253 |
| 50,000            | 3272A-1-503 |
| 100,000           | 3272A-1-104 |
| 200,000           | 3272A-1-204 |
| 250,000           | 3272A-1-254 |
| 500,000           | 3272A-1-504 |
| 1,000,000         | 3272A-1-105 |

Special resistances available from 100 ohms to 1 megohm.

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For quotations or to place an order,  
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