

Features

- Surface mount 2 mm Square / Single-turn / Cermet / Sealed
- Compatible with surface mount manufacturing processes
- Miniature design for flexibility
- RoHS compliant*
- For trimmer applications/processing guidelines, <u>click here</u>

3312 - 2 mm SMD Trimpot[®] Trimming Potentiometer

Electrical Characteristics

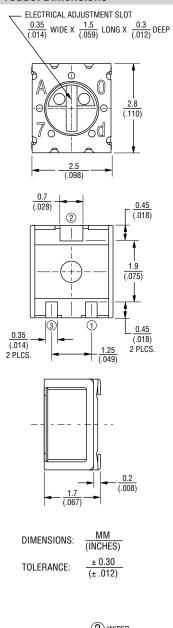
| Standard Resistance Range | | | | |
|--|--|--|--|--|
| 10 ohms to 2 megohms | | | | |
| (see standard resistance table) | | | | |
| Resistance Tolerance | | | | |
| End Resistance 1 % or 2 ohms max. | | | | |
| (whichever is greater) | | | | |
| Contact Resistance Variation | | | | |
| 5 % or 3 ohms max. | | | | |
| (whichever is greater) | | | | |
| Adjustability | | | | |
| Voltage Divider ±0.4 % | | | | |
| Rheostat±0.8 % | | | | |
| Resolution Essentially infinite | | | | |
| Insulation Resistance 500 VDC | | | | |
| 100 megohms min. | | | | |
| Dielectric Strength | | | | |
| Sea Level | | | | |
| 70,000 Feet350 VAC | | | | |
| Adjustment Angle 255 ° nom. | | | | |
| Environmental Characteristics | | | | |
| | | | | |
| Power Rating (50 volts max.) | | | | |
| 70 °C 0.1 watt | | | | |
| 125 °C 0 watt | | | | |
| Operating Temperature Range | | | | |
| 55 °C to +125 °C | | | | |
| Temperature Coefficient ±100 ppm/°C | | | | |
| Seal Test85 °C Fluorinert [†] /60 seconds | | | | |
| Humidity MIL-STD-202 Method 106 | | | | |

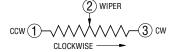
Physical Characteristics

| Mechanical Stop | o 285 ° nom. |
|-----------------|------------------------|
| Torque | 0.7 oz-in. max |
| Stop Strength | 0.7 oz-in. nom. |
| Weight | Approximately 0.0321 g |
| Marking | |

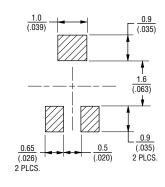
......... Resistance code and date code Standard Packaging 500 pcs./7 " reel (MSL-1)

Product Dimensions





Recommended Land Pattern



Standard Resistance Table

| Resistance (Ohms) | Part Marking Code | Resistance Code |
|----------------------|----------------------|--------------------|
| 10 | A1 | 100 |
| 20 | U1 | 200 |
| 50 | V1 | 500 |
| 100 | A2 | 101 |
| 200 | U2 | 201 |
| 500 | V2 | 501 |
| 1,000 | A3 | 102 |
| 2,000 | U3 | 202 |
| 5,000 | V3 | 502 |
| 10,000 | A4 | 103 |
| 20,000 | U4 | 203 |
| 50,000 | V4 | 503 |
| 100,000 | A5 | 104 |
| 200,000 | U5 | 204 |
| 500,000 | V5 | 504 |
| 1,000,000 | A6 | 105 |
| 2,000,000 | U6 | 205 |

Popular values listed in boldface. Consult factory for special resistances.

E = 500 pcs./7 " Reel (MSL-1)

Tape and reel material meets Antistatic ANSI/ ESD 5541-2003 packaging standards.



WARNING Cancer and Reproductive Harm www.P65Warnings.ca.gov *RoHS Directive 2015/863, Mar. 31, 2015 and Annex †"Fluorinert" is a registered trademark of 3M Co.

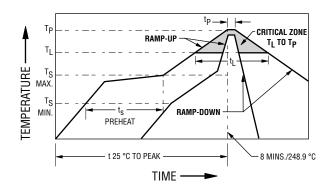
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Processing Information

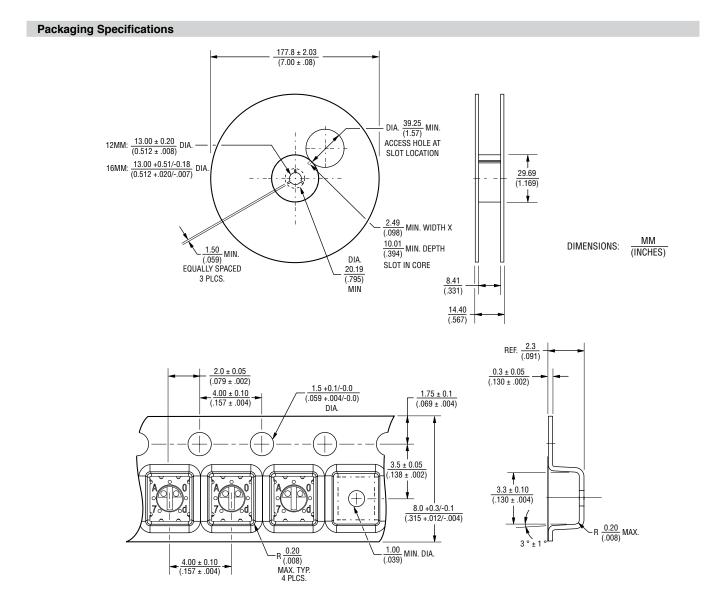
| Process Description | Materials | Temperature | Time Interval |
|---|--|-------------------------------------|--|
| Apply solder paste to test board (8 - 10 mil thick) | Sn 96.5/Ag 3.0/Cu 0.5 Alloy water soluble or no clean solder paste Single sided epoxy glass (G10) (UL approved) PC board approx. 4x4x.06 in. | Room temperature | |
| 2. Place test units onto board | 6 units/board | | |
| 3. Ramp up | Convection oven | | 2.5 °C ±0.5 °/second |
| 4. Preheat (T _S) | | 150 °C to 190 °C | 90 ±30 seconds |
| 5. Time above liquidus (TL) | | 220 °C | 60-90 seconds |
| 6. Peak temperature (Tp) | | | 250 °C +0 °/-5 ° 10-20 sec. within 5 °C of peak |
| 7. Ramp down | | Room temperature | 3 °C ±0.5 °C/second |
| 8. Cleaning water clean profile | High pressure deionized water 65 PSI maximum | 72 °F to 160 °F (22 °C to 71 °C) | As required |



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