

# 3 mm Square Surface Mount Miniature Trimmer Single-Turn Cermet Sealed



### **FEATURES**





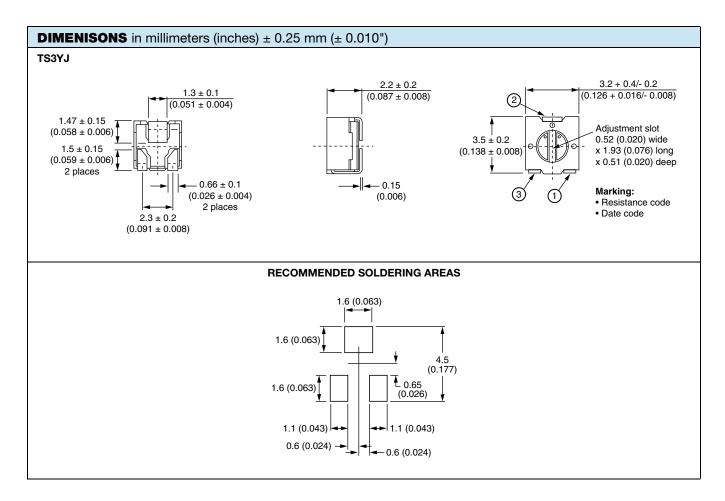
· Small size for optimum packaging density

RoHS

- · Suitable for both manual and automatic operations
- Material categorization: for definitions of compliance please see <a href="https://www.vishay.com/doc?99912">www.vishay.com/doc?99912</a>

### **LINKS TO ADDITIONAL RESOURCES**







| ELECTRICAL SPECIFICATIONS                    |  |  |
|--|--|--|
| Resistive element                            | Cermet   |  |
| Electrical travel                            | 220°   |  |
| Resistance range                             | 10 Ω to 2 MΩ   |  |
| Stocked range                                | 1 kΩ to 100 kΩ   |  |
| Standard series                              | 1 - 2 - 5  |  |
| Tolerance standard                           | ± 20 %   |  |
| Circuit diagram                              | $ \begin{array}{c} \stackrel{a}{\bigcirc} & & & \stackrel{c}{\bigcirc} \\ \stackrel{(1)}{\bigcirc} & & \stackrel{b}{\bigcirc} & \longrightarrow cw \end{array} $ |  |
| Power rating                                 | 0.125 W at 70 °C   |  |
| Temperature coefficient (max.)               | $\leq$ 100 $\Omega$ ± 150 ppm/°C/> 100 $\Omega$ ± 100 ppm/°C   |  |
| Limiting element voltage (max.)              | 200 V  |  |
| Contact resistance variation                 | 3 % or 3 $\Omega$  |  |
| End resistance                               | 1 % or 3 Ω   |  |
| Dielectric strength (RMS)                    | 500 V (sea level)  |  |
| Insulation resistance (500 V <sub>DC</sub> ) | 100 MΩ   |  |

| MECHANICAL SPECIFICATIONS   |      |  |
|-----------------------------|------|--|
| Mechanical travel           | 250° |  |
| Operating torque (max. Ncm) | 0.5  |  |
| End stop torque (min. Ncm)  | 2    |  |
| Unit weight (max. g)        | 0.1  |  |
| Mechanical life (cycles)    | 50   |  |

#### Note

• Nothing stated herein shall be construed as a guarantee of quality or durability

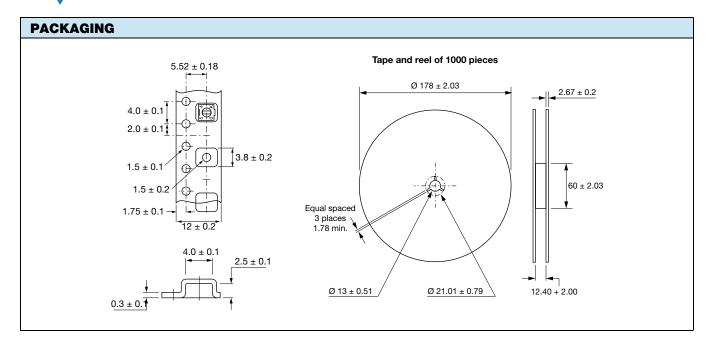
| ENVIRONMENTAL SPECIFICATIONS |                       |  |
|------------------------------|-----------------------|--|
| Temperature range            | -55 °C to +125 °C     |  |
| Sealing                      | Sealed container IP67 |  |
| MSL level                    | 1                     |  |

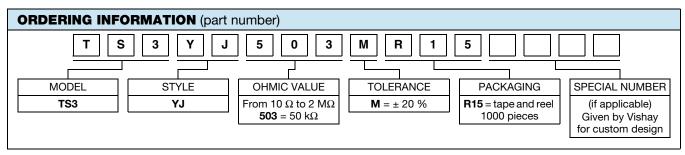
## **SOLDERING RECOMMENDATIONS**

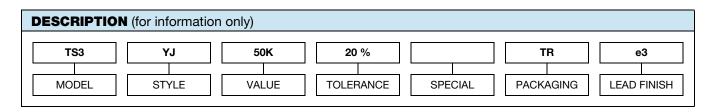
Recommended reflow profile 2, see Application Note www.vishay.com/doc?52029

| STANDARD RESISTANCE ELEMENT DATA |                   |                 |  |  |
|----------------------------------|-------------------|-----------------|--|--|
| RESISTANCE                       | PART MARKING CODE | RESISTANCE CODE |  |  |
| 10                               | A1                | 100             |  |  |
| 20                               | 21                | 200             |  |  |
| 50                               | 51                | 500             |  |  |
| 100                              | A2                | 101             |  |  |
| 200                              | 22                | 201             |  |  |
| 500                              | 52                | 501             |  |  |
| 1K                               | A3                | 102             |  |  |
| 2K                               | 23                | 202             |  |  |
| 5K                               | 53                | 502             |  |  |
| 10K                              | A4                | 103             |  |  |
| 20K                              | 24                | 203             |  |  |
| 50K                              | 54                | 503             |  |  |
| 100K                             | A5                | 104             |  |  |
| 200K                             | 25                | 204             |  |  |
| 500K                             | 55                | 504             |  |  |
| 1M                               | A6                | 105             |  |  |
| 2M                               | 26                | 205             |  |  |

# Vishay Sfernice







| RELATED DOCUMENTS   |                          |  |  |
|---|--------------------------|--|--|
| APPLICATION NOTES   |                          |  |  |
| Potentiometers and Trimmers                                       | www.vishay.com/doc?51001 |  |  |
| Guidelines for Vishay Sfernice Resistive and Inductive Components | www.vishay.com/doc?52029 |  |  |



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