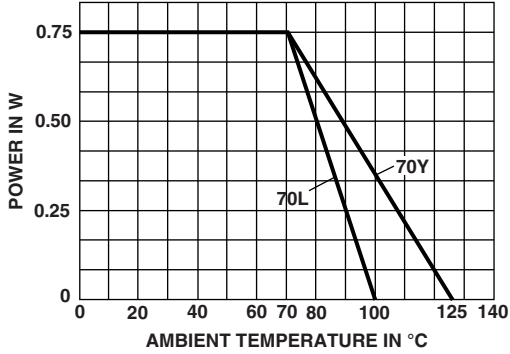
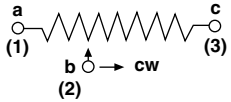




| ELECTRICAL SPECIFICATIONS                       |   |
|---|---|
| Resistance range                                | 10 $\Omega$ thru 2 M $\Omega$   |
| Standard resistance tolerance                   | 10 %  |
| End resistance                                  | 2 % maximum   |
| Actual effective electrical travel              | 20 turns nominal  |
| Contact resistance variation                    | 3 % or 3 $\Omega$ , whichever is greater  |
| Dielectric withstanding voltage                 | 1000 V <sub>AC</sub> at sea level, 350 V <sub>AC</sub> at 80 000 feet (24 400 meters) |
| Insulation resistance                           | 1000 M $\Omega$   |
| Power rating                                    |     |
| Circuit diagram                                 |    |
| Limiting element voltage                        | 350 V   |
| Temperature coefficient of resistance (typical) | $\pm$ 100 ppm/ $^{\circ}$ C   |

| MECHANICAL SPECIFICATIONS |   |
|---------------------------|---|
| Operating torque          | 5 oz. in (3.60 Ncm) maximum   |
| Rotational life           | 200 cycles with loaded circuit, maximum change in resistance 2 % or 500 cycles without discontinuity unloaded |
| Weight                    | 0.116 oz. (3.3 g) maximum   |
| Terminals                 | Pure Sn (code e3)   |

| ENVIRONMENTAL SPECIFICATIONS |   |
|------------------------------|---|
| Operating temperature range  | - 55 $^{\circ}$ C to + 125 $^{\circ}$ C (100 $^{\circ}$ C for leadwire style) |
| Terminal strength            | 2 lbs (9 N) minimum push/pull   |
| Sealed                       | All units sealed to permit cleaning in common solvents immersion              |

| PERFORMANCES              |  |                           |                              |
|---------------------------|--|---------------------------|------------------------------|
| TESTS                     | CONDITIONS   | TYPICAL VALUES AND DRIFTS |                              |
|                           |  | $\Delta R_T/R_T$ (%)      | $\Delta R_{1-2}/R_{1-2}$ (%) |
| Thermal shock             | - 55 $^{\circ}$ C to + 125 $^{\circ}$ C, 5 cycles<br>(100 $^{\circ}$ C for leadwire style) | 1 %                       | 1 %                          |
| Shock                     | 50 g at 11 ms, 3 successive shocks in 3 directions   | 1 %                       | 1 %                          |
| Vibration                 | 10 Hz to 55 Hz 0.75 mm or 10 g for 6 h   | 1 %                       | 1 %                          |
| Load life                 | 1000 h at rater power 90'/30'  | 1 %                       | 5 %                          |
| High temperature exposure | + 125 $^{\circ}$ C (100 $^{\circ}$ C for leadwire style)                                   | 1 %                       | 5 %                          |
| Resistance to solder heat | 350 $^{\circ}$ C for 3 s   | 1 %                       | -                            |



1 1/4" Rectangular Multi-Turn Cermet  
Trimmer

Vishay Spectrol

| MARKING  |
|--|
| <ul style="list-style-type: none"> <li>• SPECTROL</li> <li>• Model</li> <li>• Ohmic value</li> <li>• Tolerance</li> <li>• Circuit diagram</li> <li>• Manufacturing date</li> </ul> |

| PACKAGING                           |
|-------------------------------------|
| In box of 50 pieces code B25 (BO50) |

| ORDERING INFORMATION (Part Number) |  |   |                                       |   |                                    |   |                            |   |  |   |  |  |  |  |
|------------------------------------|--|---|---------------------------------------|---|------------------------------------|---|----------------------------|---|--|---|--|--|--|--|
| M                                  | 7  | 0 | L                                     | 1 | 0                                  | 3 | K                          | B | 2  | 5 |  |  |  |  |
| MODEL                              | STYLE                                    |   | OHMIC VALUE                           |   | TOLERANCE                          |   | PACKAGING CODE             |   | SPECIAL NUMBER                                       |   |  |  |  |  |
| M70                                | L = Leadwire<br>Y = Printed circuit pins |   | From 10 Ω to 2 MΩ<br><b>103</b> = 10K |   | K = 10 %<br>On request:<br>J = 5 % |   | <b>B25</b> = Box 50 pieces |   | (If applicable)<br>Given by Vishay for custom design |   |  |  |  |  |

| DESCRIPTION (for information only) |       |       |           |         |           |             |
|------------------------------------|-------|-------|-----------|---------|-----------|-------------|
| 70                                 | L     | 10K   | 10 %      |         | BO50      | e3          |
| MODEL                              | STYLE | VALUE | TOLERANCE | SPECIAL | PACKAGING | LEAD FINISH |



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