

3/8" Square (10 mm) Single-Turn Cermet Trimmer



The Model 63 cermet trimmer is available in several pin configurations for top or side adjustment and with a choice of Knob styles for finger setting. Quick adjustment is achieved with multi-finger wiper and the standard resistance range is between 100 Ω and 2 MΩ with a tolerance of ± 10 %.

FEATURES

- Arrow and graduations for repeatable settings
- "O" ring seal for solvent and aqueous washing
- Rigid board mounting achieved with pins secured in housing
- Multi-finger wiper for better contact resistance
- Solid end stop
- Tests according to CECC 41000 or IEC 60393-1
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912



RoHS
COMPLIANT



| ELECTRICAL SPECIFICATIONS | |
|---|---|
| Effective travel | 270° nominal |
| Resistance range | 100 Ω to 2 MΩ |
| Resistance tolerance | ± 10 % |
| End resistance | 2 Ω or 1 % whichever is greater |
| Temperature coefficient of resistance (typical) | ± 100 ppm/°C |
| Power rating | 0.5 W at + 70 °C derated linearly to 0 W at 125 °C maximum voltage not to exceed 250 V |
| Circuit diagram |  |
| Dielectric withstand voltage | 1000 V _{AC} at sea level; 250 V _{AC} at 80 000 ft (24 000 m) |
| Insulation resistance (500 V _{DC}) | 1000 MΩ minimum |
| Contact resistance variation | 1 % or 1 Ω , whichever is greater |

| MECHANICAL SPECIFICATIONS | |
|----------------------------------|-----------------------------|
| Mechanical travel | 300° ± 50 |
| Starting torque | 35 mNm max. |
| Weight | 0.03 oz. (0.85 g) max. |
| Resistance element | Cermet |
| 2 terminal adjustability | ± 0.15 % of RT |
| 3 terminal adjustability | ± 0.05 % of applied voltage |
| Terminals | Pure Sn (code e3) |

| ENVIRONMENTAL SPECIFICATIONS | |
|-------------------------------------|---------------------|
| Temperature range | - 55 °C to + 125 °C |
| Climatic category | 55/125/21 |
| Sealing | IP64 |

| PERFORMANCES | | | | | | |
|------------------------|---------------------------------------|----------|----------------------------------|---------------|-----------------------|------------|
| TESTS | CONDITIONS | MAX. (R) | CHANGE PER CECC | | PER IEC | PER MIL |
| | | | V _{AB} /V _{AC} | 41100 | | |
| Vibration | 98 m/s ² , 10 Hz to 500 Hz | 1 % | 2 % | (PARA 2.3.2) | Test FC (IEC 6-2-6) | Method 204 |
| Electrical endurance | 1000 h | 3 % | - | (PARA 2.5.16) | - | No equiv. |
| Soldering | - | - | - | (PARA 2.3.7) | Test TB (IEC 68-2-20) | Method 208 |
| Resistance to heat | - | 1 % | - | (PARA 2.3.7) | Test B (IEC 68-2-20A) | Method 210 |
| Damp heat steady state | 21 days | 3 % | - | (PARA 2.1) | Test C (IEC 68-2-3) | Method 103 |
| Mechanical life | 200 cycles | 3 % | - | - | Method 2 | - |
| Terminal strength | 2.2 lbs. (1 kg) | min. | - | - | - | - |

| MARKING |
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| <ul style="list-style-type: none"> • Vishay trademark • Model • Resistance value • Tolerance • Date code • Terminal identification |



| PACKAGING |
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| <ul style="list-style-type: none"> In box of 200 pieces code B40 (BO200) On request : <ul style="list-style-type: none"> In box of 100 pieces code B30 (BO100) In tube of 50 pieces code T20 (TU50) |

| ORDERING INFORMATION (Part Number) | | | | | | | | | | | | | | |
|------------------------------------|------------------|---|-------------------------------------|---|---|-----------|---|---|---|---|---|---|---|---|
| M | 6 | 3 | P | 2 | 0 | 1 | K | B | 4 | 0 | T | 6 | 0 | 7 |
| Model | STYLE | | OHMIC VALUE | | | TOLERANCE | | PACKAGING CODE | | | SPECIAL NUMBER | | | |
| M63 | P M X S | | From 100 Ω to 2 MΩ 201 = 200R | | | K = 10 % | | B40 = Box 200 pieces On request: B30 = Box 100 pieces T20 = Tube 50 pieces | | | (If applicable) Given by Vishay for custom design | | | |

| DESCRIPTION (for information only) | | | | | | |
|------------------------------------|-------|-------|-----------|---------|-----------|-------------|
| 63 | P | 200U | 10 % | T607 | BO200 | e3 |
| MODEL | STYLE | VALUE | TOLERANCE | SPECIAL | PACKAGING | LEAD FINISH |



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