

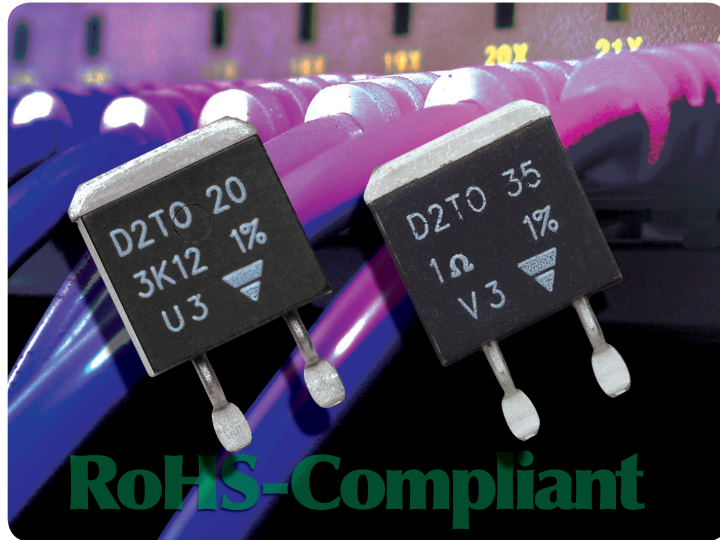


POWER THICK FILM RESISTORS

D2TO20, D2TO35



TO-263 (D²PAK) 20- and 35-Watt Power Thick Film Resistors



KEY BENEFITS

- Standard TO-263 (D²PAK) package
- Wide ohmic value range: from R01 in 1 % tolerance up to 550 k Ω
- Non-inductive
- Compliant to RoHS Directive 2011/65/EU
- Compliant with high-temperature (270 °C) soldering profile

APPLICATIONS

- Power supplies
- Current sensing
- Power conversion
- High-speed switching
- Snubbers
- RF applications

RESOURCES

- Datasheet: D2TO20 - <http://www.vishay.com/doc?51055>
- Datasheet: D2TO35 - <http://www.vishay.com/doc?51058>
- For technical questions contact sfer@vishay.com

Resistors - 20 W and 35 W Power at 25 °C

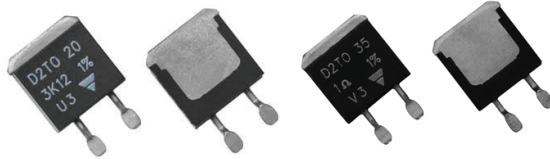
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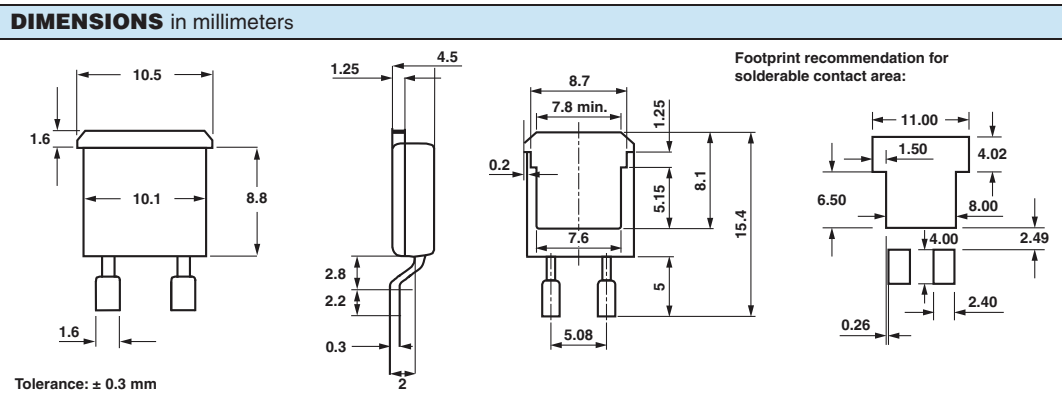


FEATURES

- AEC-Q200 qualified
- 20 W at 25 °C case temperature
- 35 W at 25 °C case temperature
- Surface mounted resistor - TO-263 (D²PAK) style package
- Wide resistance range from 0.01 Ω to 550 kΩ
- Non inductive
- Resistor isolated from metal tab
- Solder reflow secure at 270 °C/10 s
- Compliant to RoHS Directive 2002/95/EC



RoHS
COMPLIANT



Notes

- For the assembly on board, we recommend the lead (Pb)-free thermal profile as per J-STD-020C
- Power dissipation is 2.8 W at an ambient temperature of 25 °C when mounted on a double sided copper board using FR4 standard, 70 μm of copper, 39 mm x 30 mm x 1.6 mm

ELECTRICAL SPECIFICATIONS D2TO20	
Resistance Range	0.01 Ω to 550 kΩ
Tolerances (Standard)	± 1 % to 10 %
Power Rating and Thermal Resistance	20 W at 25 °C (case temperature) $R_{TH(j-c)}$: 6.5 °C/W
Temperature Coefficient	See Special Features table Standard: ± 150 ppm/°C
Limiting Element Voltage U_L	250 V
Dielectric Strength IEC 60115-1	2000 V_{rms} - 1 min - 10 mA max. (between terminals and board)
Insulation Resistance	≥ 10 ⁶ MΩ
Inductance	≤ 0.1 μH
Critical Resistance	3.12 kΩ

ELECTRICAL SPECIFICATIONS D2TO35	
Resistance Range	0.01 Ω to 550 kΩ
Tolerances (Standard)	± 1 % to 10 %
Power Rating and Thermal Resistance	35 W at 25 °C (case temperature) $R_{TH(j-c)}$: 4.28 °C/W
Temperature Coefficient	See Special Features table Standard: ± 150 ppm/°C
Limiting Element Voltage U_L	250 V
Dielectric Strength IEC 60115-1	2000 V_{rms} - 1 min - 10 mA max. (between terminals and board)
Insulation Resistance	≥ 10 ⁶ MΩ
Inductance	≤ 0.1 μH
Critical Resistance	1.79 kΩ

Revision 19-Jul-11

Resistors - 20 W and 35 W Power at 25 °C