# Sample Kit
# Thick Film Resistors
# DTO35 and D2TO35


## FEATURES

AUTOMOTIVE GRADE

RoHS COMPLIANT

- AEC-Q200 qualified
- 35 W at 25 °C case temperature for DTO35
- 35 W at 25 °C case temperature for D2TO35
- Surface mounted resistor - TO-252 (DPAK) style package for DTO35
- Surface mounted resistor - TO-263 ($D^2PAK$) style package for D2TO35
- Wide resistance range: 0.01 Ω to 550 kΩ
- Non inductive
- Resistor isolated from metal tab
- Solder reflow secure at 270 °C / 10 s
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

This sample kit includes a selection of resistor values covering a representative range. The resistors are arranged in ascending order of ohmic value and clearly marked for intuitive identification. Designed for engineers and designers, this kit allows quick validation of high-performance SMD power resistors engineered to operate reliably in the most challenging and demanding environments.

| SAMPLE KIT SPECIFICATIONS | |
|---|---|
| Laboratory kit | DTO D2TO SAMPLE KIT |
| Resistor type DTO at temperature coefficient | ± 150 ppm/°C |
| Resistor type D2TO at temperature coefficient | ± 150 ppm/°C |
| Tolerance | ± 1 % |
| Resistance value | 1.0 Ω / 2.2 Ω / 10 Ω / 22 Ω / 47 Ω / 100 Ω / 220 Ω / 470 Ω / 1 kΩ / 4.7 kΩ / 22 kΩ / 47 kΩ |
| Number of resistance values | 12 |
| Quantity | 4 resistors per value and model = 96 resistors in total |
| DTO PCB | 1 PCB designed for 4 resistors test: parallel or series |
| D2TO PCB | 1 PCB designed for 4 resistors test: parallel or series |

**Note**

- For more detailed specifications please check the following documents:
  DTO35: www.vishay.com/doc?51078
  D2TO35: www.vishay.com/doc?51058
  Application note: www.vishay.com/doc?52027

## TEST RECOMMENDATIONS

Power maximum DTO35: 4.5 W per piece on FR4 HTG PCB

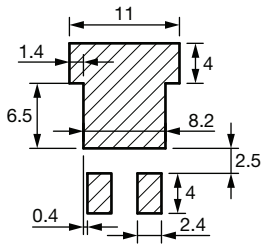
Power maximum D2TO35: 3.5 W per piece on FR4 HTG PCB

The FR4 HTG PCB included in the kit covers two mountings: one is with a serial mounting, the other is a parallel mounting.

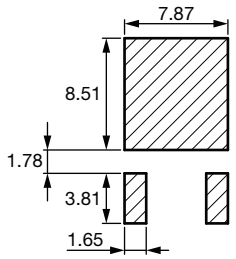
Do not mount DTO or D2TO on both sides or the thermal performance will be deteriorated.

## FOOTPRINT

We recommend the minimum footprints for the solderable contact area.




Soldering pad D2TO




Soldering pad DTO