



Diodes & Resistors Overview

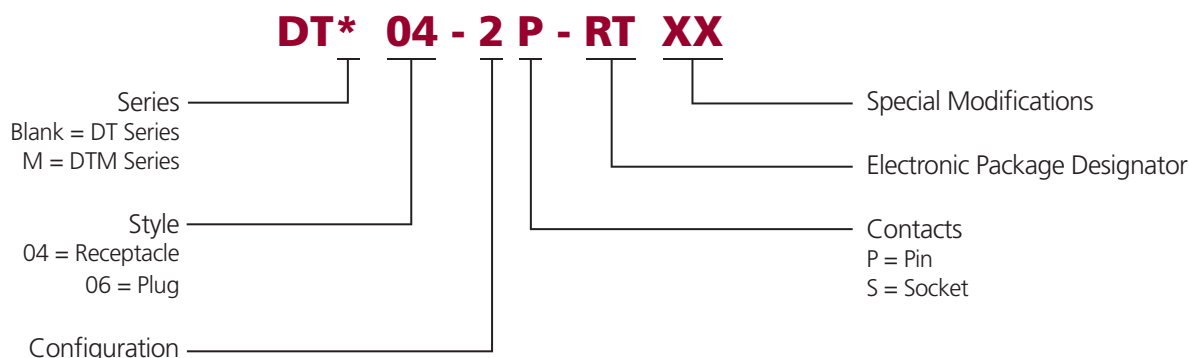
Deutsch DT connectors with diodes and resistors are useful anywhere you need to regulate power or protect a device against a potential power surge.

A diode allows current to flow in one direction only. By preventing current from traveling a circuit in the wrong direction, a diode can protect an electronic device from damage. Devices with batteries will often use diodes to prevent power from flowing in reverse if the battery is not installed correctly.

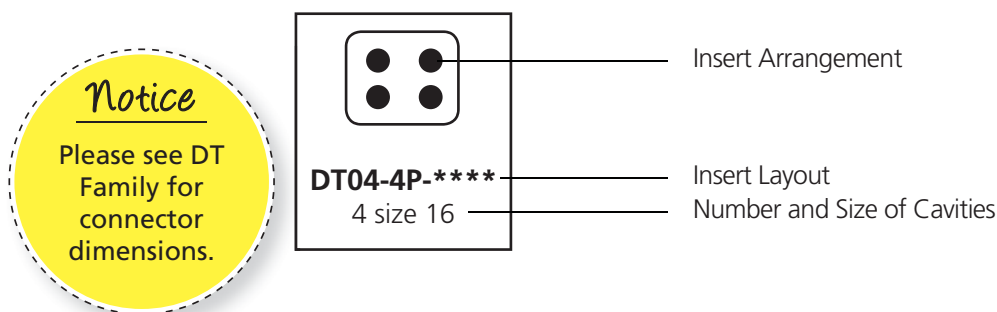
A resistor limits or blocks current flow in both directions. Resistors protect sensitive electronics by limiting the amount of electricity that can flow to the device through the resistor, and therefore preventing power spikes. For example, resistors are used to prevent power surges from burning out an LED by restricting current flow to the light.

Deutsch diode and resistor connectors are easily added to an application after the fact if unwanted power surges are discovered.

Part Numbering System



Diode & Resistor Configurations



DTM Series Configurations



DTM0*-2*-****
2 size 20

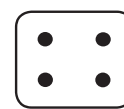
DT Series Configurations



DT0*-2*-****
2 size 16







DT0*-3*-****
3 size 16












DT0*-4*-****
4 size 16

Deutsch Diode Characteristics

| DT Series | Part Number | Plug or Receptacle | Diode Part Number | Peak Reverse Volts | Peak Forward Volts | Avg. Forward Current | Color |
|---|--------------|--------------------|----------------------------|--------------------|--------------------|----------------------|-------|
|  | DT04-2P-RT01 | Receptacle | Motorola Diode: MUR460 | 600 V max. | 1.28 V max. | 4.0 A max. | Black |
|  | DT04-2P-RT02 | Receptacle | Toshiba Diode: 3GZXX | 400 V max. | 1.0 V max. | 3.0 A max. | Black |
|  | DT04-4P-RT01 | Receptacle | Motorola Diode: MUR460 (3) | 600 V max. | 1.28 V max. | 4.0 A max. | Black |
|  | DT04-4P-RT03 | Receptacle | Motorola Diode: MUR460 (2) | 600 V max. | 1.28 V max. | 4.0 A max. | Gray |

Deutsch Resistor Characteristics

| DTM Series | Part Number | Plug or Receptacle | Resistor Ohms | Resistor Watts | Resistor Tolerance | Color |
|---|---------------|--------------------|---------------|----------------|--------------------|--|
|  | DTM04-2P-EP10 | Receptacle | 120 | 0.4 | 5% | Black (B keyed wedgelock included) |
|  | DTM04-2P-P006 | Receptacle | 120 | 0.4 | 5% | Gray (A keyed wedgelock included) |
|  | DTM06-2S-EP10 | Plug | 120 | 0.4 | 5% | Black (B keyed wedgelock included) |
|  | DTM06-2S-P006 | Plug | 120 | 0.4 | 5% | Gray (A keyed wedgelock included) |
| DT Series | Part Number | Plug or Receptacle | Resistor Ohms | Resistor Watts | Resistor Tolerance | Color |
|  | DT04-2P-RT25 | Receptacle | 27k | 0.5 | 1% | Black |
|  | DT04-3P-EP10 | Receptacle | 120 | 0.4 min. | 10% | Black (J1939 keyed wedgelock included) |
|  | DT04-3P-P006 | Receptacle | 120 | 0.4 min. | 10% | Gray (J1939 keyed wedgelock included) |
|  | DT06-3S-EP10 | Plug | 120 | 0.4 min. | 10% | Black (J1939 keyed wedgelock included) |
|  | DT06-3S-P006 | Plug | 120 | 0.4 min. | 10% | Gray (J1939 keyed wedgelock included) |

