

Application

- Automotive
- USB3.1
- Wearable
- Healthcare

Murata Manufacturing Co., Ltd.
Thermistor and Variable Products Dept

Doc No. DM-T18-M5 (English)





Murata Thermistor for Automotive

muRata
INNOVATOR IN ELECTRONICS

HEV/PHEV/EV

E • Pump
Temp.Sensing

NC*

PRF



D EPS ECU
Temp.sensing

NC*



C HVAC Inverter
Temp.sensing

NC*



B BMS Circuit
protection

PTGL



A • Battery ,BMS ,Charger
Temp.sensing
• Circuit protection

NC*

NX *

PRF

PRG



F D/D Converter
Temp.sensing

NC*



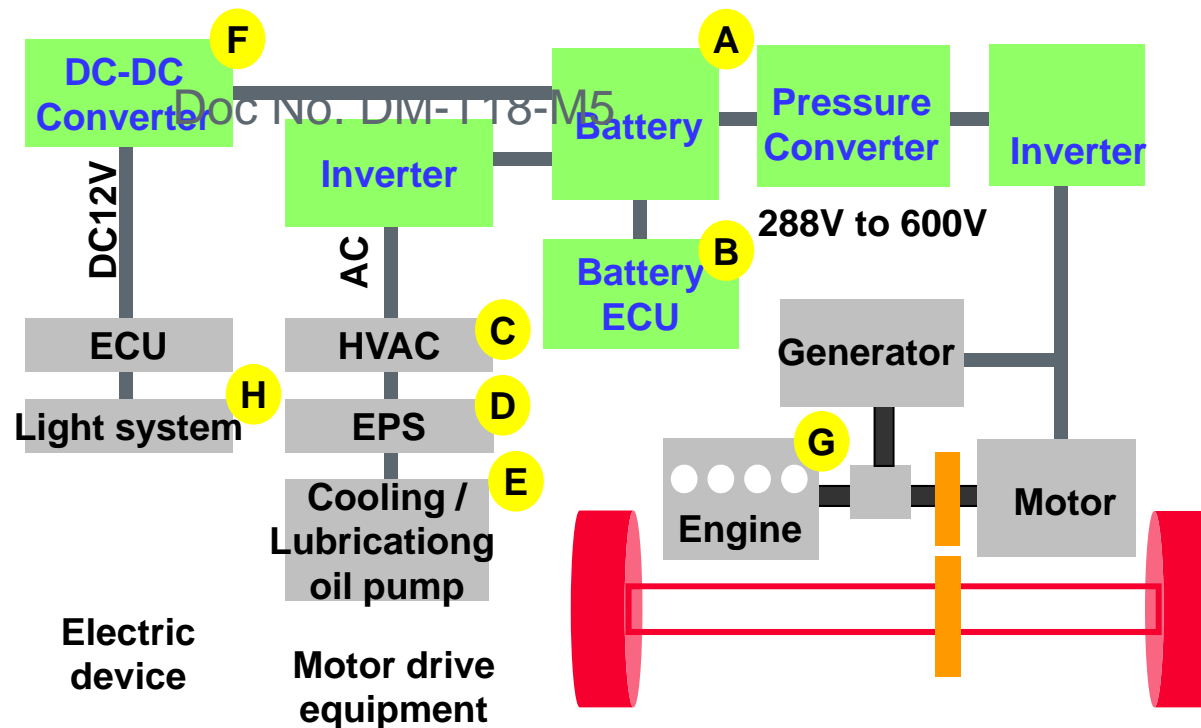
G • ECU
Temp.sensing

NC*



H • LED Light
Temp.sensing

NC*



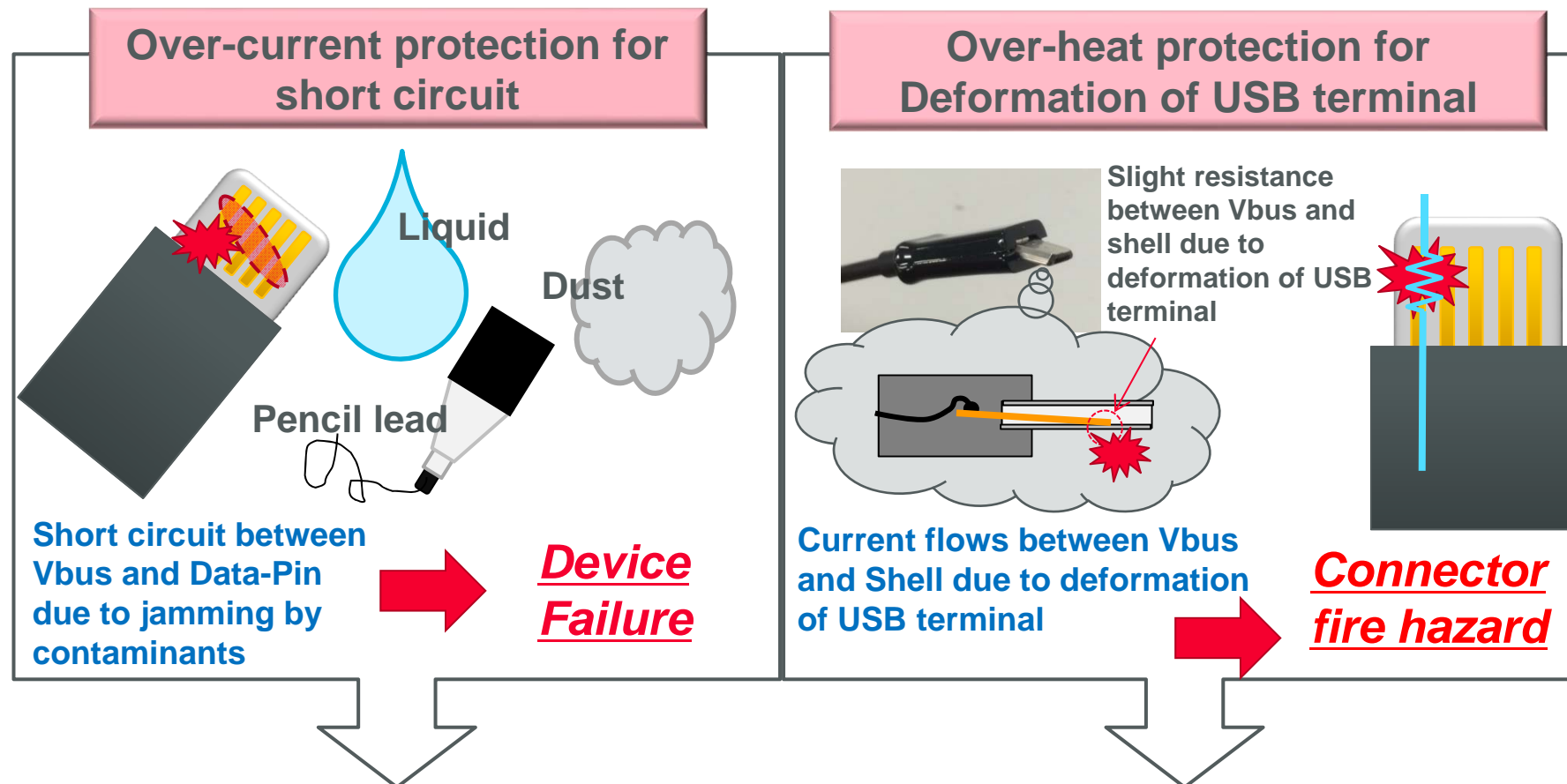
CONFIDENTIAL

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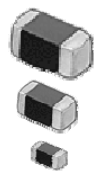
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Murata Thermistor(Over-heat and Over-current protection) for USB3.1, USB-PD, USB-Type C



★ Resettable Fuse “PRG Series”



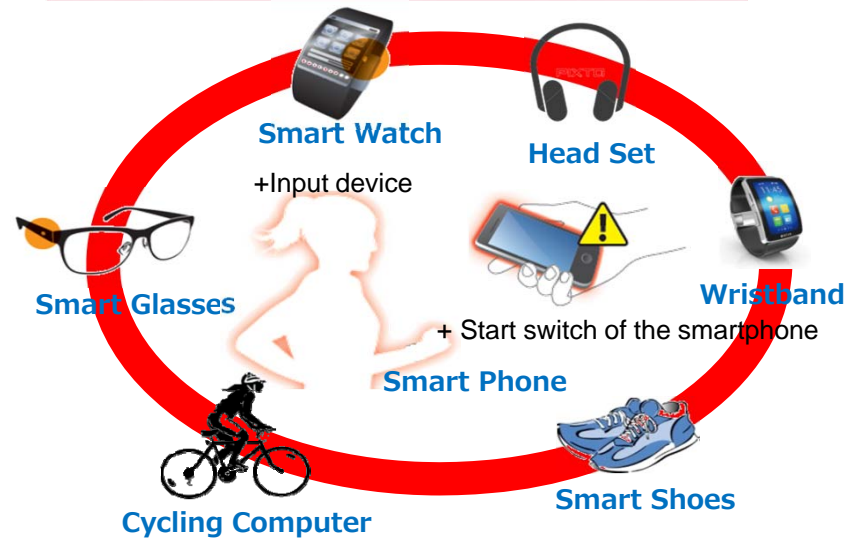
0805 size
0603 size
0402 size

- ✓ High Reliability
- ✓ Non thermal runaway
- ✓ No miss-operation for ESD



Murata Thermistor for wearable application

Clumsy touch panel !



Measure and Record !

Temperature



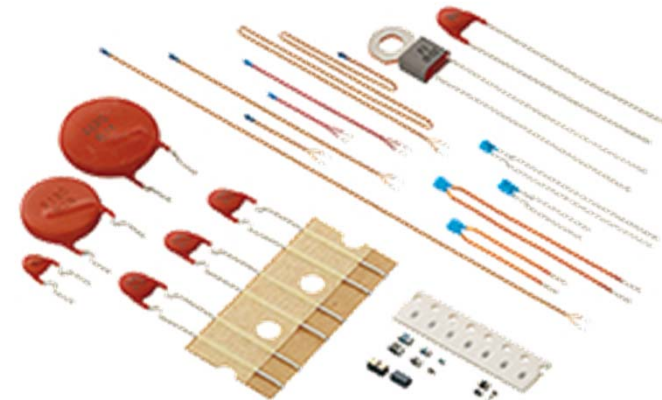
+ Temperature detection
of the body surface



**Flat Thin head Insulated Temperature
Sensor for Temperature Detection**



Thermistor for Temperature Detection



Murata Thermistor for healthcare application



Measuring temperature



Temperature compensation



Heating



Beauty instrument

Temperature detecting by NTC temperature sensor



NC* series

NXF series

FTN series



NC* series

Micro Heater



FTP series