



# **ADVANTAGE**

New lead (Pb)-free coating, which is environmental friendly and offers better high temperature resistance.

# **KEY PRODUCT FEATURES**

- √ TCR at 25 °C = 4100 ppm/K
- √ High stability over the complete temperature range of -55 °C to +150 °C
- ✓ AEC-Q200 qualified



### **RESOURCES**











## MARKETS AND APPLICATIONS



#### CONNECTIVITY

- Temperature compensation in wireless communication modules
- Thermal monitoring in IoT devices
- Overtemperature protection in networking equipment



### **CONSUMER**

 Temperature sensing in smart home thermostats and HVAC systems



#### **MOBILITY**

- Battery pack temperature monitoring
- Thermal management in power electronics
- Temperature compensation in LiDAR, radar, and camera modules for ADAS
- Overtemperature protection in charging stations



#### **INDUSTRIAL**

- Motor winding temperature control
- Thermal compensation in precision manufacturing sensors



### **MEDICAL**

- Body temperature sensing in wearable medical devices
- Thermal regulation in imaging systems



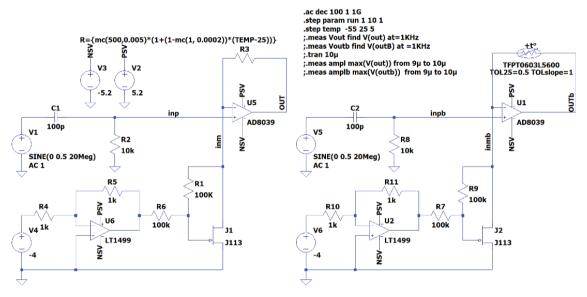


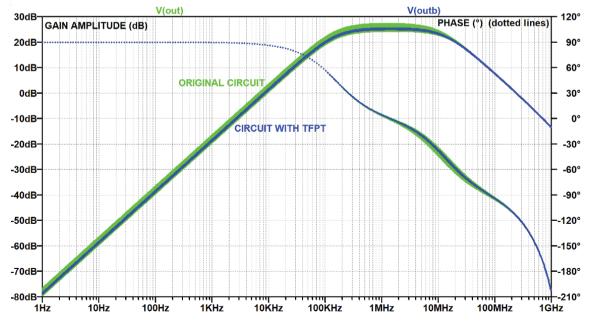
#### **ADDITIONAL BENEFITS**

- Low failure rate  $\leq$  0.1 FIT (x10-9/h)
- Wide R25 selection range from 100  $\Omega$  to 10 K $\Omega$
- · Fail-safe PTC sensing technology

### TEMPERATURE COMPENSATION EXAMPLE

JFET-based amplifier stage, temperature noise reduction by the TFPT0603 as an alternative to KTY silicon resistors





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