CAPACITORS

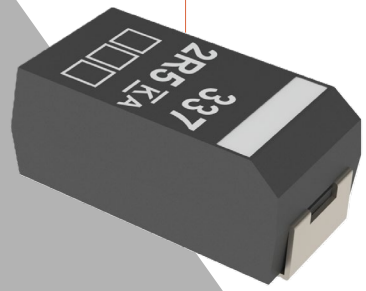
Tantalum Polymer

High Humidity, High Temperature

YAGEO GROUP
Built into Tomorrow

PRODUCT OVERVIEW

The **YAGEO Group T598 Series** is a **Tantalum Polymer Electrolytic capacitor Automotive Grade** designed to combine high temperature, and high humidity capability in the demanding **automotive applications** .



This new single digit ESR in EIA3528-20 dimension set a **new benchmark** for designers seeking compact, **high volumetric solutions with 85°C, 85% RH stable performance; improved capacitance retention and low ESR at high frequencies.**

Quick Facts

Voltage : 2.5V
Capacitance Range: 220-330µF
ESR: <=9mOhm (RT, 300kHz)
Construction: EIA 3528-20 (equivalent 1210 MLCC)
Certifications: AEC-Q200

Contact & Information

For special requests (custom designs, lifetime extensions, etc.) contact regional Tantalum PM team representative

Key Selling Points

Features

- **Higher cap per unit volume**
- **Lower ESR and Low Thermal Resistance**
- **Higher Category Temperature and extended life**
- **Electrical parameters stability (capacitance, ESR, DCL,...) in temperature and humidity**
- **1st to Market automotive grade EIA:3528-20 with 220-330uF 2.5V with single digit ESR**

Customer Value

- Smaller components, allow compact designs
- Smaller 3528 footprint allow an efficient board design optimization with a not susceptible to flex cracking construction
- Lower Loss capacitors
- High Reliability,
- Excellent Performance in longer life applications
- Stability / High Performance response at high frequencies due to extended capacitance retention and lower ESR/ESL.

Target Applications

- **Autonomous Driving (DCU, ZCU, CCU)**
- **Automotive Sensing (RADAR, LIDAR, Cameras, ..)**
- **New Robots / Humanoid Designs**
- **Support expansion of LEO Satellites POL miniaturisation**

NEW

1st to Market
T598B227M2R5ATE009
T598B337M2R5ATE009

Market Advantages

- New T598 capability with EIA 3528-20 and ESR 9mOhm offer advantages: (a) board design, (b) electrical performance stability and c) extended mission profiles