Polymer Hermetic Seal (PHS)

Overview

The T550 axial and T555 surface mount polymer hermetic seal (PHS) tantalum capacitor series are devices designed for extreme conditions that must also retain optimal electrical performance such as low ESR, frequency performance, and capacitance retention. PHS capacitors are also manufactured using KEMET’s F-Tech process which eliminates defects in the dielectric that would otherwise be undetected and cause potential failure during the operational life.

Part Number System

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- **Family** - T: Tantalum
- **Termination** - T: 100% Sn
- **Product Level** - A: N/A
- **Voltage** - 025: 25 V
- **Tolerance** - M: 20%
- **Capacitance Code** - 107 = 100 μF
- **Size Code** - See Table
- **Series** - 550: Axial; 555: SMD

**Applications**

- Suitable for automotive, industrial, and aircraft applications, including:
  - Filtering
  - Switching regulators
  - Hold-up capacitance
  - High-current power supplies
  - High-reliability electronics
  - Radar systems

**Electrical Characteristics**

- **Capacitance**: 20 μF to 680 μF
- **Operating Temperature**: -55°C to 105°C
- **Voltage Rating**: 6.3 VDC and 100 VDC
- **Operating Lifetime**: Up to 9,200 hours at 125°C

**Features**

- 100% surge voltage tested
- 100% voltage conditioned (up to 240 hours)
- 100% breakdown testing screened
- MIL–PRF–39006/22/25/30/31 equivalent size

**Voltage and Capacitance Offerings**