

## Wet Tantalum High-Energy Capacitor



### KEY BENEFITS

- Capacitance range: 1100 μF to 72 000 μF
- Low ESR: 0.035 Ω
- Ripple current capability: up to 16 A
- Utilizes proven SuperTan® hybrid technology
- Withstands high stress and hazardous environments

### APPLICATIONS

- Airborne radar
- Military
- Weapons systems
- Pulse power devices

### RESOURCES

- Datasheets
  - HE3 - <http://www.vishay.com/doc?42089>
  - DSCC 10011 - <http://www.vishay.com/doc?40141>
- Wet tantalum product portfolio: <http://www.vishay.com/capacitors/tantalum/tantalum-wet/>
- Technical questions: [wettants@vishay.com](mailto:wettants@vishay.com)
- Sales contact: <http://www.vishay.com/doc?99914>



### Wet Tantalum Capacitors Tantalum-Case with Glass-to-Tantalum Hermetic Seal for - 55 °C to + 125 °C Operation



#### FEATURES

- High energy, very high capacitance design
- All tantalum, hermetically sealed case
- Utilizes Vishay proven SuperTan® technology
- Terminations: Radial leaded
- Approved to DSCC drawing 10011
- Material categorization: For definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



**RoHS\***  
COMPLIANT

#### Note

\* Lead (Pb)-containing terminations are not RoHS-compliant. Exemptions may apply.

#### PERFORMANCE CHARACTERISTICS

##### Operating Temperature:

- 55 °C to + 85 °C (to + 125 °C with voltage derating)

##### Capacitance Tolerance:

At 120 Hz, + 25 °C ± 20 % standard  
± 10 % available as special

Contact marketing for availability of 10 % tolerance

##### DC Leakage Current (DCL Max.):

At + 25 °C: Leakage current shall not exceed the values listed in the Standard Ratings tables.

##### Life Test:

Capacitors are capable of withstanding a 1000 h life test at a temperature of + 85 °C at the applicable rated DC working voltage.

ORDERING INFORMATION								
HE3	C	543	K	025	B	Z	S	S
TYPE	CASE CODE	CAPACITANCE	CAPACITANCE TOLERANCE	DC VOLTAGE RATING AT + 85 °C	TERMINATION AND PACKAGING	RELIABILITY LEVEL	TEMPERATURE	ESR
	See Ratings and Case Codes table	This is expressed in microfarads. The first two digits are the significant figures. The third is the number of zeros to follow.	K = 10 % <sup>(1)</sup> M = 20 %	This is expressed in V. To complete the three-digit block, zeros precede the voltage rating. A decimal point is indicated by an "R" (6R3 = 6.3 V)	A = 100 % tin (RoHS compliant) B = Tin/lead and bulk	Z = Non-ER	S = Standard (- 55 °C to + 85 °C)	S = Standard

#### Note

<sup>(1)</sup> Contact marketing for availability of 10 % tolerance

Full datasheet specifications:

\* HE3 - <http://www.vishay.com/doc?42089>

\* DSCC 10011 - <http://www.vishay.com/doc?40141>