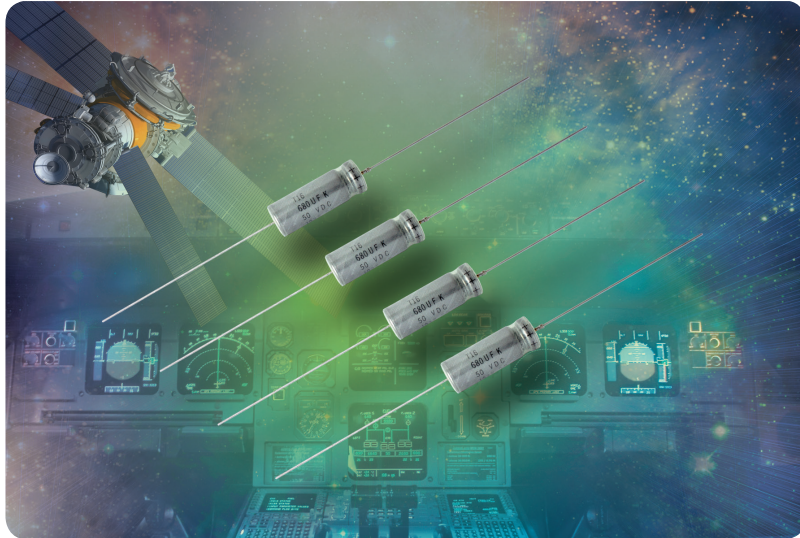


Wet Tantalum, Axial Leaded, Tantalum Case, Extended Capacitance, Enhanced Performance



KEY BENEFITS

- Higher capacitance
- Greater reverse voltage capability: 3 V
- Extended thermal shock capability: 300 shocks
- Greater vibration capability: 80 g sine, 53.79 g random
- Temperature range of -55 °C to +85 °C, to +125 °C with voltage derating
- Low ESR down to 0.50 Ω at 120 Hz and +25 °C

APPLICATIONS

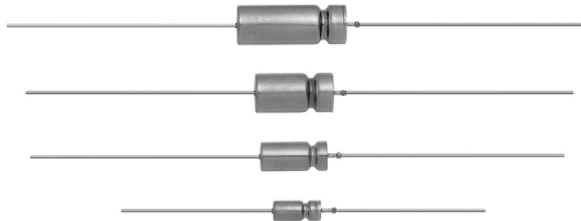
- Power supplies for space and avionics applications
- Timing
- Filtering
- Energy hold-up
- Pulse power

RESOURCES

- Datasheet: T16 - www.vishay.com/ppg?40139
- For technical questions contact tantalum@vishay.com
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



Wet Tantalum, Axial Leaded, Tantalum Case, Extended Capacitance, Enhanced Performance



PERFORMANCE CHARACTERISTICS

Refer to: Typical Performance Characteristics

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

Capacitance Tolerance: ± 10 %, ± 20 % standard

DC Leakage Current (DCL Max.): at +25 °C and above: leakage current shall not exceed the values listed in the Standard Ratings table.

FEATURES

- Enhanced performance, high reliability design
- Terminations: axial, standard tin / lead (Sn / Pb), 100 % tin (RoHS-compliant) available
- Model T16 tantalum-case electrolytic capacitors provide all the advantages of Vishay's SuperTan® series devices, while offering improved reverse voltage and vibration capability
- Increased thermal shock capability of 300 cycles
- Designed for the avionics and aerospace applications
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



RoHS*
Available
HALOGEN FREE
GREEN
(5-2008)
Available

Note

* This datasheet provides information about parts that are RoHS-compliant and / or parts that are non RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information / tables in this datasheet for details

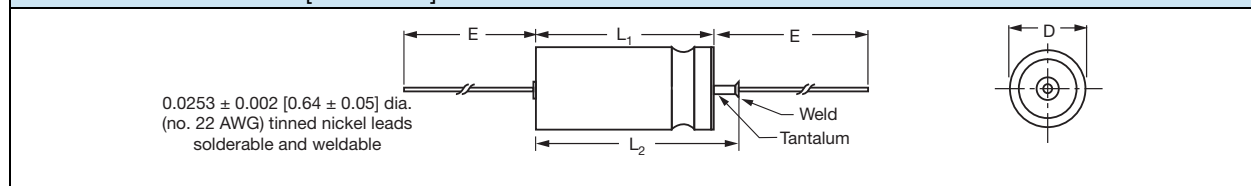
ORDERING INFORMATION

T16	D	227	M	100	E	Z	S	S
MODEL	CASE CODE	CAPACITANCE	CAPACITANCE TOLERANCE	DC VOLTAGE RATING AT +85 °C	TERMINATION AND PACKAGING	RELIABILITY / SHOCK / VIBRATION LEVEL	INSULATING SLEEVE	ESR
	See Ratings and Case Codes Table.	This is expressed in picofarads. The first two digits are the significant figures. The third is the number of zeros to follow.	K = ± 10 % M = ± 20 %	This is expressed in volts. To complete the three-digit block, zeros precede the voltage rating.	E = tin / lead, bulk, standard C = 100 % tin, bulk	Z = standard H = high	S = sleeved U = unsleeved	S = standard

Note

- Packaging: the use of formed plastic trays for packaging these axial lead components is standard. Tape and reel is not available due to the unit weight

DIMENSIONS in inches [millimeters]



CASE CODE		D	L ₁	L ₂ (max.)	E	WEIGHT (g) (max.)
TYPE T16	ST					
A	T1	0.188 ± 0.016 [4.78 ± 0.41]	0.453 + 0.031 / - 0.016 [11.51 + 0.79 / - 0.41]	0.734 [18.64]	1.500 ± 0.250 [38.10 ± 6.35]	2.6
B	T2	0.281 ± 0.016 [7.14 ± 0.41]	0.641 + 0.031 / - 0.016 [16.28 + 0.79 / - 0.41]	0.922 [23.42]	2.250 ± 0.250 [57.15 ± 6.35]	6.2
E	L2	0.281 ± 0.016 [7.14 ± 0.41]	1.008 + 0.031 / - 0.016 [25.60 + 0.79 / - 0.41]	1.171 [29.75]	2.250 ± 0.250 [57.15 ± 6.35]	7.84
C	T3	0.375 ± 0.016 [9.52 ± 0.41]	0.766 + 0.031 / - 0.016 [19.46 + 0.79 / - 0.41]	1.047 [26.59]	2.250 ± 0.250 [57.15 ± 6.35]	11.6
D	T4	0.375 ± 0.016 [9.52 ± 0.41]	1.062 + 0.031 / - 0.016 [26.97 + 0.79 / - 0.41]	1.343 [34.11]	2.250 ± 0.250 [57.15 ± 6.35]	17.7

Note

- For insulated parts, add 0.015" [0.38 mm] to the diameter. The insulation shall lap over the ends of the capacitor body