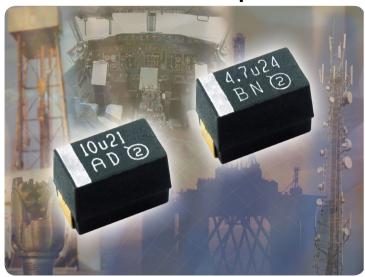


CAPACITORS

TH5 Tantalum

TH5 - HI TMP® Solid Tantalum Surface-Mount Capacitors



KEY BENEFITS

- Application voltage: 21 V and 24 V at + 200 °C (no further voltage derating required)
- Capacitance value: 10 μF at 21 V and 4.7 μF at 24 V
- 500 h continuous operation at + 200 °C
- 100 % surge current tested
- High reliability
- EIA 7343-43 molded package
- Gold-plated terminations

APPLICATIONS

- Oil and petroleum applications
- High-temperature sensing and drilling systems
- Industrial applications
- Safety-critical industrial tools and products
- · High temp extended activities
- High-temperature engines
- Electronic sensors

RESOURCES

- Datasheet: http://www.vishay.com/doc?40146
- Tantalum product portfolio: http://www.vishay.com/capacitors/tantalum/
- Reliability calculator: <a href="http://www.vishay.com/capacitors/tantalum/capacitors/tantalum/tantalum-tan
- Technical questions: contact tantalum@vishay.com
- Sales contacts: http://www.vishay.com/doc?99914
- Material categorization: For definitions of compliance please see http://www.vishay.com/doc?99912



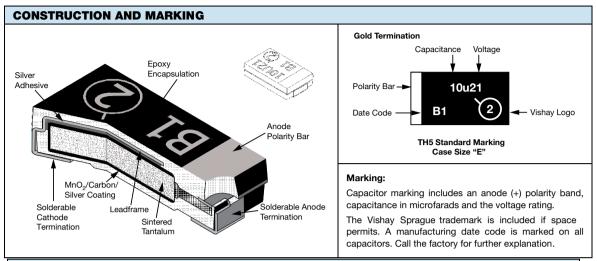
One of the World's Largest Manufacturers of Discrete Semiconductors and Passive Components





CAPACITORS

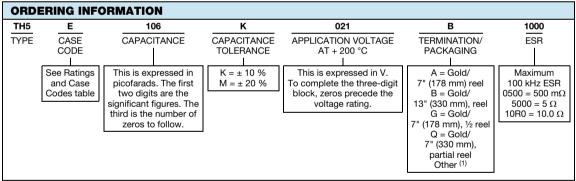
TH5 Tantalum



STANDARD RATINGS							
CAPACITANCE (µF)	CASE CODE	PART NUMBER	MAX. DC LEAKAGE AT + 25 °C (μA)	TYPICAL DC LEAKAGE AT + 200 °C (μΑ)	MAX. DF AT + 25 °C (%)	MAX. ESR AT + 25 °C 100 kHz (Ω)	MAX. RIPPLE 100 kHz I _{RMS} (A)
21 V _{DC} AT + 200 °C							
10	Е	TH5E106(1)021(2)1000	2.1	120	6	1.000	0.41
10	Е	TH5E106(1)021(2)0500	2.1	120	6	0.500	0.57
24 V _{DC} AT + 200 °C							
4.7	Е	TH5E475(1)024(2)2500	1.1	60	6	2.500	0.26

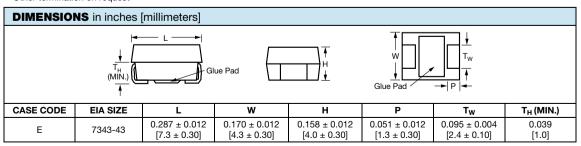
Note

- Part number definitions:
- (1) Capacitance tolerance codes: K, M
- (2) Terminations and packaging: A, B, G, Q



Note

(1) Other termination on request



Note

- Glue pad (non-conductive, part of molded case) is dedicated for glue attachment (as user option).
- TH5 series, 21 V/24 V capacitors have been designed for, and tested at, 21 V/24 V at + 200 °C for 500 h.
 As with all tantalum capacitors, reliability and life may be extended by lower applied voltage.

View complete datasheet: http://www.vishay.com/doc?40146