

WET TANTALUM CAPACITORS

EP1

Wet Tantalum Capacitors, High Energy, Ultra High Capacitance, -55 °C to +125 °C Operation



KEY BENEFITS

- High energy, very high capacitance design
- All tantalum, hermetically sealed case
- Utilizes Vishay's proven SuperTan® technology
- Patent pending
- Two termination options: SMD and radial

APPLICATIONS

Avionics:

- Pulse power
- Energy hold-up

RESOURCES

- Datasheet: EP1 <u>www.vishay.com/doc?42107</u>
- For technical questions contact <u>tantalum@vishay.com</u>
- Material categorization: for definitions of compliance, please see www.vishay.com/99912





PRODUCT SHEET



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FP1

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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

CAPACITANCE (μF)	CASE CODE	PART NUMBER	MAX. ESR AT +25 °C, 1 kHz (Ω)	MAX. DCL AT +25 °C (μΑ)	MAX. DCL AT +85 °C (mA)	WEIGHT (g)
		25 V _{DC} AT +85 °C; 15	V _{DC} AT +125 °C, SURC	GE VOLTAGE = 27	5 V _{DC}	
30 000	Α	EP1A303(1)025(2)(3)(4)(5)	0.030	150	1.5	63
		35 V _{DC} AT +85 °C; 21	V _{DC} AT +125 °C, SURC	GE VOLTAGE = 38	5 V _{DC}	
20 000	А	EP1A203(1)035(2)(3)(4)(5)	0.040	150	1.5	63
		50 V _{DC} AT +85 °C; 3	0 V _{DC} AT +125 °C, SUR	GE VOLTAGE = 5	5 V _{DC}	
13 000	А	EP1A133(1)050(2)(3)(4)(5)	0.050	100	1.0	63
		63 V _{DC} AT +85 °C; 4	0 V _{DC} AT +125 °C, SUR	GE VOLTAGE = 69	V _{DC}	
6000	А	EP1A602(1)063(2)(3)(4)(5)	0.050	100	1.0	63
		80 V _{DC} AT +85 °C; 50	0 V _{DC} AT +125 °C, SUR	GE VOLTAGE = 88	3 V _{DC}	
4000	А	EP1A402(1)080(2)(3)(4)(5)	0.055	100	1.0	63
		100 V _{DC} AT +85 °C; 6	5 V _{DC} AT +125 °C, SUR	GE VOLTAGE = 11	IO V _{DC}	
3000	А	EP1A302(1)100(2)(3)(4)(5)	0.065	100	1.0	63
		125 V _{DC} AT +85 °C; 85	5 V _{DC} AT +125 °C, SUR	GE VOLTAGE = 27	.5 V _{DC}	
2000	А	EP1A202(1)125(2)(3)(4)(5)	0.100	100	1.0	63

Note

Part number definitions:

(1) Standard capacitance tolerance is 20 % or "M." Contact marketing for availability of 10 % or "K."

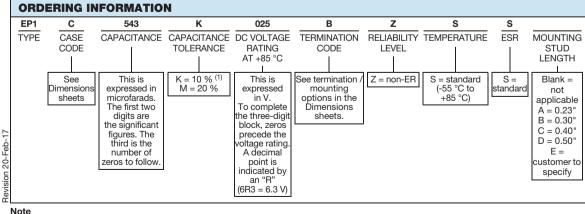
(2) Standard termination is "F" radial tin / lead. RoHS-compliant or radial 100 % tin is available as "E."

(3) Standard reliability is "Z" or non-established reliability.

(4) Standard temperature range is "S" or -55 °C to +125 °C.

(5) Standard ESR is "S."

PERFORMANCE CHARACTERISTICS OF HIGH ENERGY CAPACITORS



⁽¹⁾ Contact marketing for availability of 10 % tolerance

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