

Solid Tantalum Surface Mount Capacitors TANTAMOUNT[®], Molded Case, DSCC Approved, Low ESR

FEATURES

- Terminations: Gold and solder plated
- Molded case available in 3 case codes
- Meets MIL-PRF-55365 and EIA535BAAC mechanical and performance requirements
- High ripple current carrying capability
- Low ESR



Inspection: MIL-PRF-55365, Group A Inspection (exponential distribution); Subgroups 1 and 3 with voltage aging a minimum of 10 h.

100 % Surge current tested

- Temperature: 25 °C
- Applied voltage: Rated voltage
- Test cycles: 4
- Charge and discharge cycles: 4 s maximum
- Total DC resistance: 0.6 Ω maximum

PERFORMANCE/ELECTRICAL CHARACTERISTICS

Operating Temperature: - 55 °C to + 125 °C

Capacitance Range: 4.7 μF to 220 μF

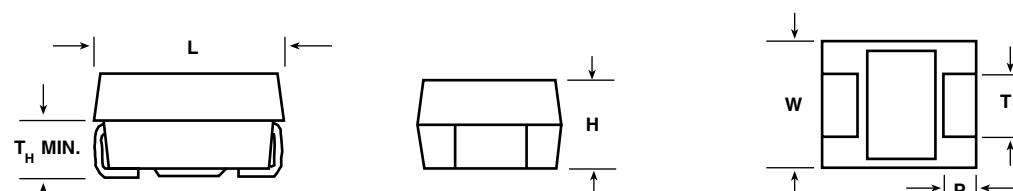
Capacitance Tolerance: ± 10 %, and ± 20 %

Voltage Rating: 6.3 VDC to 50 VDC

ORDERING INFORMATION

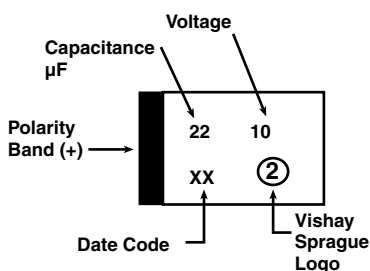
95158- DRAWING NUMBER	01 DASH NUMBER	K CAPACITANCE TOLERANCE	H TERMINATION FINISH	T PACKAGING
		K = ± 10 % M = ± 20 %	B = Gold plated (10 microinch minimum) H = Solder plated (100 microinch minimum)	T = 7" (178 mm) reel W = 13" (330 mm) reel

DIMENSIONS in inches [millimeters]

							
CASE CODE	EIA SIZE	L	W	H	P	Tw	TH MIN.
C	6032-28	0.236 ± 0.012 [6.0 ± 0.30]	0.126 ± 0.012 [3.2 ± 0.30]	0.098 ± 0.012 [2.5 ± 0.30]	0.051 ± 0.012 [1.3 ± 0.30]	0.087 ± 0.004 [2.2 ± 0.10]	0.039 [1.0]
D	7343-31	0.287 ± 0.012 [7.3 ± 0.30]	0.170 ± 0.012 [4.3 ± 0.30]	0.110 ± 0.012 [2.8 ± 0.30]	0.051 ± 0.012 [1.3 ± 0.30]	0.095 ± 0.004 [2.4 ± 0.10]	0.039 [1.0]
E	7343-43	0.287 ± 0.012 [7.3 ± 0.30]	0.170 ± 0.012 [4.3 ± 0.30]	0.158 ± 0.012 [4.0 ± 0.30]	0.051 ± 0.012 [1.3 ± 0.30]	0.095 ± 0.004 [2.4 ± 0.10]	0.039 [1.0]

RATINGS AND CASE CODES

μF	6.3 V	10 V	16 V	20 V	25 V	35 V	50 V
4.7						C	E
6.8						E	
10						D/E	
15				D	D/E	E	
22				D	E	E	
33			D		E		
47		D	D	E			
68	D	E		E			
100		D/E	E				
150	E	D/E					
220	D/E	E					

MARKING

“C, D, E” Case Sizes

Marking:

Capacitor marking includes an anode (+) polarity band, capacitance in microfarads and the voltage rating. The Vishay Sprague® trademark is included if space permits. Capacitors rated at 6.3 V are marked 6 V. A manufacturing date code is marked on all capacitors. Call the factory for further explanation.

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TANTAMOUNT[®], Molded Case, DSCC Approved, Low ESR

Vishay

RATINGS AND PART NUMBER REFERENCE										
CAPACITANCE (μF)	CASE CODE	PART NUMBER	MAX. DC LEAKAGE MAX. (μA)			MAX. DISSIPATION FACTOR (%)			MAX. ESR AT + 25 °C 100 kHz (Ω)	MAX. RIPPLE 100 kHz I _{rms} (A)
			+ 25 °C	+ 85 °C	+ 125 °C	+ 25 °C	+ 85 °C + 125 °C	- 55 °C		
6.3 VDC AT + 85 °C, 4 VDC AT + 125 °C										
68	D	95158-01(1)(2)(3)	3.3	19.8	33.0	4	6	6	0.175	0.93
150	E	95158-02(1)(2)(3)	7.2	43.2	72.0	6	8	8	0.125	1.15
220	D	95158-25(1)(2)(3)	13.2	132.0	165.0	8	12	12	0.100	1.22
220	E	95158-03(1)(2)(3)	13.2	132.0	165.0	8	12	12	0.100	1.28
10 VDC AT + 85 °C, 7 VDC AT + 125 °C										
47	D	95158-04(1)(2)(3)	3.8	22.8	38.0	4	6	6	0.200	0.87
68	E	95158-05(1)(2)(3)	5.4	32.4	54.0	4	6	6	0.150	1.05
100	D	95158-06(1)(2)(3)	10.0	100.0	125.0	8	12	12	0.100	1.22
100	E	95158-07(1)(2)(3)	8.0	48.0	80.0	6	8	8	0.100	1.28
150	E	95158-08(1)(2)(3)	15.0	150.0	187.5	8	12	12	0.100	1.28
150	D	95158-26(1)(2)(3)	15.0	150.0	187.5	8	12	12	0.100	1.22
220	E	95158-28(1)(2)(3)	15.0	150.0	187.5	8	12	12	0.100	1.28
16 VDC AT + 85 °C, 10 VDC AT + 125 °C										
33	D	95158-09(1)(2)(3)	4.2	25.2	42.0	4	6	6	0.250	0.77
47	D	95158-10(1)(2)(3)	7.5	75.0	94.0	6	9	9	0.200	0.87
100	E	95158-11(1)(2)(3)	16.0	160.0	200.0	8	12	12	0.125	1.15
20 VDC AT + 85 °C, 13 VDC AT + 125 °C										
15	D	95158-12(1)(2)(3)	2.4	14.4	24.0	4	6	6	0.275	0.74
22	D	95158-13(1)(2)(3)	3.5	21.0	35.0	4	6	6	0.275	0.74
47	E	95158-14(1)(2)(3)	7.5	45.0	75.0	4	6	6	0.150	1.05
68	E	95158-15(1)(2)(3)	13.6	136.0	170.0	6	9	9	0.150	1.05
25 VDC AT + 85 °C, 17 VDC AT + 125 °C										
15	D	95158-16(1)(2)(3)	3.8	38.0	46.9	6	9	9	0.275	0.74
15	E	95158-17(1)(2)(3)	3.0	18.0	30.0	4	6	6	0.200	0.91
22	E	95158-18(1)(2)(3)	4.4	26.4	44.0	4	6	6	0.225	0.86
33	E	95158-19(1)(2)(3)	6.6	39.6	66.0	4	6	6	0.175	0.97
35 VDC AT + 85 °C, 23 VDC AT + 125 °C										
4.7	C	95158-29(1)(2)(3)	1.7	10.2	17.0	6	9	9	0.600	0.43
6.8	E	95158-20(1)(2)(3)	1.9	11.4	19.0	4	6	6	0.300	0.74
10	D	95158-27(1)(2)(3)	3.5	35.0	42.0	4	6	6	0.300	0.71
10	E	95158-21(1)(2)(3)	2.8	16.8	28.0	4	6	6	0.250	0.81
15	E	95158-22(1)(2)(3)	5.3	53.0	65.6	6	9	9	0.225	0.86
22	E	95158-23(1)(2)(3)	7.7	77.0	96.3	6	9	9	0.300	0.74
50 VDC AT + 85 °C, 33 VDC AT + 125 °C										
4.7	E	95158-24(1)(2)(3)	1.9	11.4	19.0	4	6	6	0.300	0.74

Notes

- (1) Tolerance: K, M
(2) Termination Finish: B, H
(3) Packaging: T, W



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