Solid Tantalum Surface Mount Capacitors
TANTAMOUNT® Molded Case, High Temperature 150 °C

FEATURES

- Operating temperature up to 150 °C with 50 % voltage derating
- AEC-Q200 qualified
- 100 % surge current tested (B, C, D, E case sizes)
- RoHS compliant terminations available: Matte tin (all cases), gold (D/E cases)
- Standard EIA 535BAAC case size (A through E)
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912
- Compliant terminations
- Moisture sensitivity level 1

AUTOMOTIVE GRADE

Pb-free Available

RoHS* COMPLIANT

Note

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

PERFORMANCE CHARACTERISTICS

www.vishay.com/doc?40088

Operating Temperature: - 55 °C to + 150 °C

Capacitance Range: 0.33 µF to 220 µF

Capacitance Tolerance: ± 10 %, ± 20 %

Voltage Rating: 6.3 V_{DC} to 50 V_{DC}

APPLICATIONS

- Automotive
- Industrial
- High temperature sensors

ORDERING INFORMATION

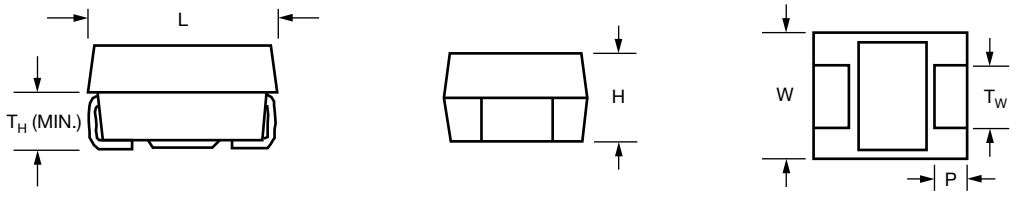
TH3	D	106	K	035	C	0700
TYPE	CASE CODE	CAPACITANCE	CAPACITANCE TOLERANCE	DC VOLTAGE RATING AT + 85 °C	TERMINATION AND PACKAGING	ESR
	See Ratings and Case Codes table.	This is expressed in picofarads. The first two digits are the significant figures. The third is the number of zeros to follow.	K = ± 10 % M = ± 20 %	This is expressed in 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: Gold/7" (178 mm) reels (1) B: Gold/13" (330 mm) reels (1) C: Matte tin/7" (178 mm) reels D: Matte tin/13" (330 mm) reels E: Tin/lead/7" (178 mm) reels F: Tin/lead/13" (330 mm) reels	Maximum 100 kHz ESR 0500 = 500 mΩ 5000 = 5.0 Ω 10R0 = 10.0 Ω

Notes

- We reserve the right to supply higher voltage ratings and tighter capacitance tolerance capacitors in the same case size. Voltage substitutions will be marked with the higher voltage rating.

(1) Contact factory for availability

DIMENSIONS in inches [millimeters]



CASE CODE	EIA SIZE	L	W	H	P	T_W	T_H (MIN.)
A	3216-18	0.126 ± 0.008 [3.2 ± 0.20]	0.063 ± 0.008 [1.6 ± 0.20]	0.063 ± 0.008 [1.6 ± 0.20]	0.031 ± 0.012 [0.80 ± 0.30]	0.047 ± 0.004 [1.2 ± 0.10]	0.028 [0.70]
B	3528-21	0.138 ± 0.008 [3.5 ± 0.20]	0.110 ± 0.008 [2.8 ± 0.20]	0.075 ± 0.008 [1.9 ± 0.20]	0.031 ± 0.012 [0.80 ± 0.30]	0.087 ± 0.004 [2.2 ± 0.10]	0.028 [0.70]
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]	0.169 ± 0.012 [4.3 ± 0.30]	0.110 ± 0.012 [2.8 ± 0.30]	0.051 ± 0.012 [1.3 ± 0.30]	0.094 ± 0.004 [2.4 ± 0.10]	0.039 [1.0]
E	7343-43	0.287 ± 0.012 [7.3 ± 0.30]	0.169 ± 0.012 [4.3 ± 0.30]	0.157 ± 0.012 [4.0 ± 0.30]	0.051 ± 0.012 [1.3 ± 0.30]	0.094 ± 0.004 [2.4 ± 0.10]	0.039 [1.0]

For technical questions, contact: tantalum@vishay.com

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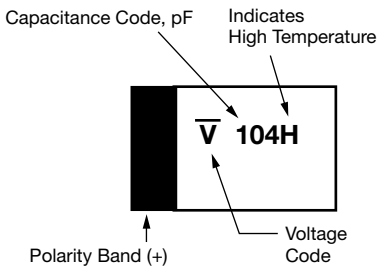
RATINGS AND CASE CODES

µF	6.3 V	10 V	16 V	20 V	25 V	35 V	50 V
0.33						A (11.0)	
0.47					A (14.0)		
0.68							
1.0			A (6.5)	A (5.9)	A (3.0, 5.2)/ B (0.5)	A (6.6)/B (4.4)	C (3.3)
1.5			A (4.3)			B (4.2)/C (3.3)	
2.2		A (4.6)	A (3.4)/B (3.0)	A (5.9)/B (3.5)	A (5.2)/B (3.0)	B (2.5)/C (2.2)	
3.3				B (2.7)/C (3.7)	B (3.0)/C (2.0)	B (2.5, 3.5)/ C (1.7)	D (1.7)
4.7		A (2.9)/B (2.7)	A (2.9)/B (2.1)	A (5.0)/ B (2.9, 1.9)/ C (1.7)	A (5.0)/B (2.8)/ C (1.6)	B (3.1)/C (1.3)/ D (1.0)	C (1.5)/D (0.9)
6.8		A (2.6)	A (2.6, 2.0)/ B (1.8)/C (1.7)		B (2.4)/C (1.4)	C (1.8)/D (0.9)	D (0.9)
10	A (3.4, 2.7)	A (3.4, 2.0)/ B (1.8)/ C (1.8, 1.7)	B (2.0)/C (1.4)	C (1.1)	C (1.1)/D (0.9)	C (1.6)/ D (0.3, 0.7)	D (0.8)/E (0.5)
15	B (1.8)	A (2.9 ,2.0)/ B (2.0, 1.8, 1.5)/ C (1.8, 1.4)	B (2.0)/C (1.0)	B (2.0)/C (1.0)/ D (0.9)	B (1.4, 2.0)/ C (1.2)/D (0.7)	D (0.7)	
22	B (2.0, 1.5)	B (1.5)/ C (1.5, 1.1)	B (1.9)/C (1.0)/ D (0.8)	C (1.0)/D (0.7)	D (0.6)	D (0.3, 0.6)/ E (0.5)	
33	B (1.9, 1.7)	B (1.9, 1.4)/ D (0.8)	C (0.9, 0.6)/ D (0.6)	D (0.6)	D (0.5)		
47	B (1.8)/C (0.8)	B (1.8)/ C (0.8, 0.5)/ D (0.6)	C (0.8, 0.6)/ D (0.6)	D (0.7)/E (0.6)	E (0.6)		
68	B (1.8)	C (1.0, 0.8)/ D (1.0, 0.6, 0.4)	D (0.6)	E (0.6)			
100	E (0.3)	C (0.9, 0.5)/ D (0.6)	D (0.6)/ E (0.6, 0.15)				
150		D (0.6)					
220		E (0.5)					

Note

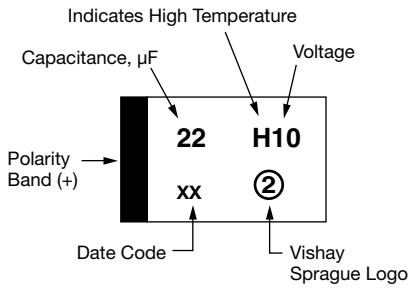
- ESR limits in Ω are shown in parenthesis

MARKING



A Case

"A" CASE VOLTAGE CODE	
VOLTS	CODE
4.0	G
6.3	J
10	A
16	C
20	D
25	E
35	V
50	T



B, C, D, E Case

Marking

Capacitor marking includes an anode (+) polarity band, capacitance in microfarads and the voltage rating. "A" case capacitors use a letter code for the voltage and EIA capacitance code.

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.

For technical questions, contact: tantalum@vishay.com

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STANDARD RATINGS

CAPACITANCE (µF)	CASE CODE	PART NUMBER	MAX. DCL AT + 25 °C (µA)	MAX. DF AT + 25 °C (%)	MAX. ESR AT + 25 °C 100 kHz (Ω)	MAX. RIPPLE 100 kHz I_{RMS} (A)
6.3 V_{DC} AT + 85 °C; 4 V_{DC} AT + 125 °C; 3.15 V_{DC} AT + 150 °C						
10	A	TH3A106(1)6R3(2)3400	0.6	6	3.40	0.15
10	A	TH3A106(1)6R3(2)2700	0.6	6	2.70	0.17
15	B	TH3B156(1)6R3(2)1800	0.9	6	1.80	0.22
22	B	TH3B226(1)6R3(2)2000	1.3	6	2.00	0.21
22	B	TH3B226(1)6R3(2)1500	1.3	6	1.50	0.24
33	B	TH3B336(1)6R3(2)1900	2.0	6	1.90	0.21
33	B	TH3B336(1)6R3(2)1700	2.0	6	1.70	0.22
47	B	TH3B476(1)6R3(2)1800	2.8	8	1.80	0.22
47	C	TH3C476(1)6R3(2)0800	2.8	6	0.80	0.37
68	B	TH3B686(1)6R3(2)1800	4.1	6	1.80	0.22
100	E	TH3E107(1)6R3(2)0300	6.0	6	0.30	0.74
10 V_{DC} AT + 85 °C; 7 V_{DC} AT + 125 °C; 5 V_{DC} AT + 150 °C						
2.2	A	TH3A225(1)010(2)4600	0.5	6	4.60	0.13
4.7	A	TH3A475(1)010(2)2900	0.5	6	2.90	0.16
4.7	B	TH3B475(1)010(2)2700	0.5	6	2.70	0.18
6.8	A	TH3A685(1)010(2)2600	6.8	6	2.60	0.17
10	A	TH3A106(1)010(2)3400	1.0	6	3.40	0.15
10	A	TH3A106(1)010(2)2000	1.0	6	2.00	0.19
10	B	TH3B106(1)010(2)1800	1.0	6	1.80	0.22
10	C	TH3C106(1)010(2)1800	1.0	6	1.80	0.25
10	C	TH3C106(1)010(2)1700	1.0	6	1.70	0.25
15	A	TH3A156(1)010(2)2900	1.0	6	2.90	0.16
15	A	TH3A156(1)010(2)2000	1.0	6	2.00	0.19
15	B	TH3B156(1)010(2)2000	1.0	6	2.00	0.21
15	B	TH3B156(1)010(2)1800	1.0	6	1.80	0.22
15	B	TH3B156(1)010(2)1500	1.0	6	1.50	0.24
15	C	TH3C156(1)010(2)1800	1.0	6	1.80	0.25
15	C	TH3C156(1)010(2)1400	1.0	6	1.40	0.28
22	B	TH3B226(1)010(2)1500	2.2	6	1.50	0.24
22	C	TH3C226(1)010(2)1500	2.2	6	1.50	0.27
22	C	TH3C226(1)010(2)1100	2.2	6	1.10	0.32
33	B	TH3B336(1)010(2)1900	3.3	6	1.90	0.21
33	B	TH3B336(1)010(2)1400	3.3	6	1.40	0.25
33	D	TH3D336(1)010(2)0800	3.3	6	0.80	0.43
47	B	TH3B476(1)010(2)1800	4.7	6	1.80	0.22
47	C	TH3C476(1)010(2)0800	4.7	6	0.80	0.37
47	C	TH3C476(1)010(2)0500	4.7	6	0.50	0.47
47	D	TH3D476(1)010(2)0600	4.7	6	0.60	0.50
68	C	TH3C686(1)010(2)1000	6.8	8	1.00	0.33
68	C	TH3C686(1)010(2)0800	6.8	8	0.80	0.37
68	D	TH3D686(1)010(2)1000	6.8	6	1.00	0.39
68	D	TH3D686(1)010(2)0600	6.8	6	0.60	0.50
68	D	TH3D686(1)010(2)0400	6.8	6	0.40	0.61
100	C	TH3C107(1)010(2)0900	10.0	6	0.90	0.35
100	C	TH3C107(1)010(2)0500	10.0	6	0.50	0.47
100	D	TH3D107(1)010(2)0600	10.0	8	0.60	0.50
150	D	TH3D157(1)010(2)0600	15.0	8	0.60	0.50
220	E	TH3E227(1)010(2)0500	22.0	8	0.50	0.61

Note

- Part number definitions:
  (1) Capacitance tolerance: K, M
  (2) Termination and packaging: C, D, E, F
  (3) Termination and packaging: A, B, C, D, E, F

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STANDARD RATINGS

CAPACITANCE (µF)	CASE CODE	PART NUMBER	MAX. DCL AT + 25 °C (µA)	MAX. DF AT + 25 °C (%)	MAX. ESR AT + 25 °C 100 kHz (Ω)	MAX. RIPPLE 100 kHz I_{RMS} (A)
16 V_{DC} AT + 85 °C; 10 V_{DC} AT + 125 °C; 8 V_{DC} AT + 150 °C						
1.0	A	TH3A105(1)016(2)6500	0.5	4	6.50	0.11
2.2	A	TH3A225(1)016(2)4300	0.5	6	4.30	0.13
3.3	A	TH3A335(1)016(2)3400	0.5	6	3.40	0.15
3.3	B	TH3B335(1)016(2)3000	0.5	6	3.00	0.17
4.7	A	TH3A475(1)016(2)2900	0.8	6	2.90	0.16
4.7	B	TH3B475(1)016(2)2100	0.8	6	2.10	0.2
6.8	A	TH3A685(1)016(2)2600	1.1	6	2.60	0.17
6.8	A	TH3A685(1)016(2)2000	1.1	6	2.00	0.19
6.8	B	TH3B685(1)016(2)1800	1.1	6	1.80	0.22
6.8	C	TH3C685(1)016(2)1700	1.1	6	1.70	0.25
10	B	TH3B106(1)016(2)2000	1.6	6	2.00	0.21
10	C	TH3C106(1)016(2)1400	1.6	6	1.40	0.28
15	B	TH3B156(1)016(2)2000	2.4	6	2.00	0.21
15	C	TH3C156(1)016(2)1000	2.4	6	1.00	0.33
22	B	TH3B226(1)016(2)1900	3.5	6	1.90	0.21
22	C	TH3C226(1)016(2)1000	3.5	6	1.00	0.33
22	D	TH3D226(1)016(3)0800	3.5	6	0.80	0.43
33	C	TH3C336(1)016(2)0900	5.3	6	0.90	0.35
33	C	TH3C336(1)016(2)0600	5.3	6	0.60	0.43
33	D	TH3D336(1)016(3)0600	5.3	6	0.60	0.50
47	C	TH3C476(1)016(2)0800	7.5	6	0.80	0.37
47	C	TH3C476(1)016(2)0600	7.5	6	0.60	0.43
47	D	TH3D476(1)016(3)0600	7.5	6	0.60	0.43
68	D	TH3D686(1)016(3)0600	10.9	6	0.60	0.50
100	D	TH3D107(1)016(3)0600	16.0	8	0.60	0.50
100	E	TH3E107(1)016(3)0600	16.0	8	0.60	0.56
100	E	TH3E107(1)016(3)0150	16.0	8	0.15	1.11
20 V_{DC} AT + 85 °C; 13 V_{DC} AT + 125 °C; 10 V_{DC} AT + 150 °C						
1.0	A	TH3A105(1)020(2)5900	0.5	4	5.90	0.11
2.2	A	TH3A225(1)020(2)5900	0.5	6	5.90	0.11
2.2	B	TH3B225(1)020(2)3500	0.5	6	3.50	0.16
3.3	B	TH3B335(1)020(2)2700	0.7	6	2.70	0.18
3.3	C	TH3C335(1)020(2)2700	0.7	6	2.70	0.20
4.7	A	TH3A475(1)020(2)5000	0.9	6	5.00	0.12
4.7	B	TH3B475(1)020(2)1900	0.9	6	2.90	0.17
4.7	B	TH3B475(1)020(2)2900	0.9	6	1.90	0.21
4.7	C	TH3C475(1)020(2)1700	0.9	6	1.70	0.25
10	C	TH3C106(1)020(2)1100	2.0	6	1.10	0.32
15	B	TH3B156(1)020(2)2000	3.0	6	2.00	0.21
15	C	TH3C156(1)020(2)1000	3.0	6	1.00	0.33
15	D	TH3D156(1)020(2)0900	3.0	6	0.90	0.41
22	C	TH3C226(1)020(2)1000	4.4	6	1.00	0.33
22	D	TH3D226(1)020(2)0700	4.4	6	0.70	0.46
33	D	TH3D336(1)020(2)0600	6.6	6	0.60	0.5
47	D	TH3D476(1)020(2)0700	9.4	6	0.70	0.46
47	E	TH3E476(1)020(2)0600	9.4	8	0.60	0.56
68	E	TH3E686(1)020(2)0600	13.6	8	0.60	0.56

Note

- Part number definitions:
  (1) Capacitance tolerance: K, M
  (2) Termination and packaging: C, D, E, F
  (3) Termination and packaging: A, B, C, D, E, F

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STANDARD RATINGS

CAPACITANCE (µF)	CASE CODE	PART NUMBER	MAX. DCL AT + 25 °C (µA)	MAX. DF AT + 25 °C (%)	MAX. ESR AT + 25 °C 100 kHz (Ω)	MAX. RIPPLE 100 kHz I_{RMS} (A)
25 V_{DC} AT + 85 °C; 17 V_{DC} AT + 125 °C; 12.5 V_{DC} AT + 150 °C						
0.47	A	TH3A474(1)025(2)14R0	0.5	4	14.00	0.073
1.0	A	TH3A105(1)025(2)5200	0.5	4	5.20	0.12
1.0	A	TH3A105(1)025(2)3000	0.5	4	3.00	0.16
1.0	B	TH3B105(1)025(2)5000	0.5	4	5.00	0.13
2.2	A	TH3A225(1)025(2)5200	0.6	6	5.20	0.12
2.2	B	TH3B225(1)025(2)3000	0.6	6	3.00	0.17
3.3	B	TH3B335(1)025(2)3000	0.8	6	3.00	0.17
3.3	C	TH3C335(1)025(2)2000	0.8	6	2.00	0.23
4.7	A	TH3A475(1)025(2)5000	1.2	6	5.00	0.12
4.7	B	TH3B475(1)025(2)2800	1.2	6	2.80	0.17
4.7	C	TH3C475(1)025(2)1600	1.2	6	1.60	0.26
6.8	B	TH3B685(1)025(2)2400	1.7	6	2.40	0.19
6.8	C	TH3C685(1)025(2)1400	1.7	6	1.40	0.28
10	C	TH3C106(1)025(2)1100	2.5	6	1.10	0.32
10	D	TH3D106(1)025(2)0900	2.5	6	0.90	0.41
15	B	TH3B156(1)025(2)2000	3.8	6	2.00	0.21
15	B	TH3B156(1)025(2)1400	3.8	6	1.40	0.25
15	C	TH3C156(1)025(2)1200	3.8	6	1.20	0.30
15	D	TH3D156(1)025(2)0700	3.8	6	0.70	0.46
22	D	TH3D226(1)025(2)0600	5.5	6	0.60	0.50
33	D	TH3D336(1)025(2)0500	8.3	6	0.50	0.55
47	E	TH3E476(1)025(2)0600	11.8	6	0.60	0.56
35 V_{DC} AT + 85 °C; 23 V_{DC} AT + 125 °C; 17.5 V_{DC} AT + 150 °C						
0.33	A	TH3A334(1)035(2)11R0	0.5	4	11.00	0.08
1.0	A	TH3A105(1)035(2)6600	0.5	4	6.60	0.11
1.0	B	TH3B105(1)035(2)4400	0.5	4	4.40	0.14
1.5	B	TH3B155(1)035(2)4200	0.5	6	4.20	0.14
1.5	C	TH3C155(1)035(2)3300	0.5	6	3.30	0.18
2.2	B	TH3B225(1)035(2)2500	0.8	6	2.50	0.18
2.2	C	TH3C225(1)035(2)2200	0.8	6	2.20	0.22
3.3	B	TH3B335(1)035(2)3500	1.2	6	3.50	0.16
3.3	B	TH3B335(1)035(2)2500	1.2	6	2.50	0.18
3.3	C	TH3C335(1)035(2)1700	1.2	6	1.70	0.25
4.7	B	TH3B475(1)035(2)3100	1.7	6	3.10	0.17
4.7	C	TH3C475(1)035(2)1300	1.6	6	1.30	0.29
4.7	D	TH3D475(1)035(2)1000	1.6	6	1.00	0.39
6.8	C	TH3C685(1)035(2)1800	2.4	6	1.80	0.25
6.8	D	TH3D685(1)035(2)0900	2.4	6	0.90	0.41
10	C	TH3C106(1)035(2)1600	3.5	6	1.60	0.26
10	D	TH3D106(1)035(2)0700	3.5	6	0.70	0.46
10	D	TH3D106(1)035(2)0300	3.5	6	0.30	0.71
15	D	TH3D156(1)035(2)0700	5.3	6	0.70	0.46
22	D	TH3D226(1)035(2)0600	7.7	6	0.60	0.50
22	D	TH3D226(1)035(2)0300	7.7	6	0.30	0.71
22	E	TH3E226(1)035(2)0500	7.7	6	0.50	0.61
50 V_{DC} AT + 85 °C; 33 V_{DC} AT + 125 °C; 25 V_{DC} AT + 150 °C						
1.0	C	TH3C105(1)050(2)3300	0.5	4	3.30	0.18
3.3	D	TH3D335(1)050(2)1700	1.7	6	1.70	0.30
4.7	C	TH3C475(1)050(2)1500	2.4	6	1.50	0.27
4.7	D	TH3D475(1)050(2)0900	2.4	6	0.90	0.41
6.8	D	TH3D685(1)050(2)0900	3.4	6	0.90	0.41
10	D	TH3D106(1)050(2)0800	5.0	6	0.80	0.43
10	E	TH3E106(1)050(2)0500	5.0	6	0.50	0.61

Note

- Part number definitions:
  (1) Capacitance tolerance: K, M
  (2) Termination and packaging: C, D, E, F
  (3) Termination and packaging: A, B, C, D, E, F

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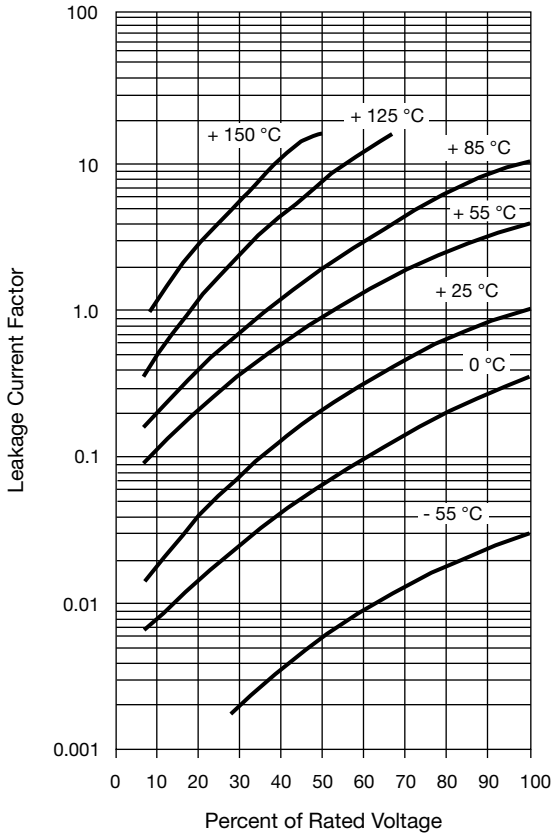
TYPICAL LEAKAGE CURRENT FACTOR



Note

- **At + 25 °C**, the leakage current shall not exceed the value listed in the Standard Ratings table.
  At + 85 °C, the leakage current shall not exceed 10 times the value listed in the Standard Ratings table.
  At + 125 °C, the leakage current shall not exceed 12 times the value listed in the Standard Ratings table.
  At + 150 °C, the leakage current shall not exceed 15 times the value listed in the Standard Ratings table.

RECOMMENDED VOLTAGE DERATING GUIDELINES (for temperatures below + 85 °C)

STANDARD CONDITIONS. FOR EXAMPLE: OUTPUT FILTERS	
Capacitor Voltage Rating	**Operating Voltage**
6.3	3.6
10	6.0
16	10
20	12
25	15
35	24
50	28
SEVERE CONDITIONS. FOR EXAMPLE: INPUT FILTERS	
Capacitor Voltage Rating	**Operating Voltage**
6.3	3.3
10	5.0
16	8.0
20	10
25	12
35	15
50	24

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POWER DISSIPATION	
CASE CODE	**MAXIMUM PERMISSIBLE POWER DISSIPATION AT + 25 °C (W) IN FREE AIR**
A	0.075
B	0.085
C	0.110
D	0.150
E	0.165

STANDARD PACKAGING QUANTITY		
CASE CODE	**UNITS PER REEL**	
	7" REEL	**13" REEL**
A	2000	9000
B	2000	8000
C	500	3000
D	500	2500
E	400	1500

PRODUCT INFORMATION	
Guide for Molded Tantalum Capacitors	www.vishay.com/doc?40074
Pad Dimensions	
Package Dimensions	
Moisture Sensitivity	www.vishay.com/doc?40135
SELECTOR GUIDES	
Solid Tantalum Selector Guide	www.vishay.com/doc?49053
Solid Tantalum Chip Capacitors	www.vishay.com/doc?40091
FAQ	
Frequently Asked Questions	www.vishay.com/doc?40110

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