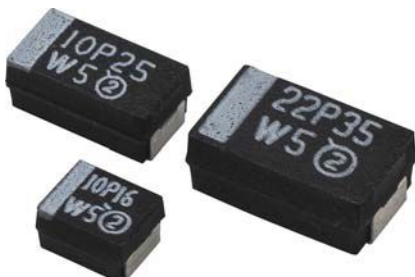


Solid Tantalum Surface Mount Capacitors

TANTAMOUNT® Molded Case, High Performance



FEATURES

- Terminations: 100 % matte tin, standard, tin/lead available
- Molded case available in five case codes
- Compatible with "High Volume" automatic pick and place equipment
- High ripple current carrying capability
- Low ESR
- Meets EIA 535BAAC
- Compliant terminations
- 100 % surge current tested (B, C, D, and E case sizes)
- Mounting: Surface mount
- AEC-Q200 qualified
- Compliant to RoHS Directive 2002/95/EC


RoHS*
COMPLIANT

Note

* Pb containing terminations are not RoHS compliant, exemptions may apply

PERFORMANCE/ELECTRICAL CHARACTERISTICS

www.vishay.com/doc?40088

Operating Temperature: - 55 °C to + 125 °C
(above 85 °C, voltage derating is required)

Capacitance Range: 0.10 µF to 470 µF

Capacitance Tolerance: ± 10 %, ± 20 %

Voltage Rating: 4 V_{DC} to 50 V_{DC}

ORDERING INFORMATION

TP3	D	226	K	035	C	0500	AS
TYPE	CASE CODE	CAPACITANCE	CAPACITANCE TOLERANCE	DC VOLTAGE RATING AT + 85 °C	TERMINATION/ PACKAGING	ESR	SPECIFICATION OPTION
	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)	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	AS = Standard

Note

- 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.

DIMENSIONS in inches [millimeters]

CASE CODE	EIA SIZE	L	W	H	P	Tw	Th 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]

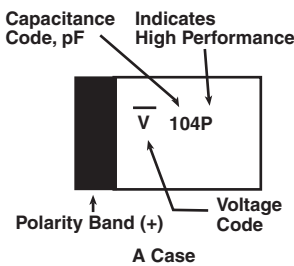


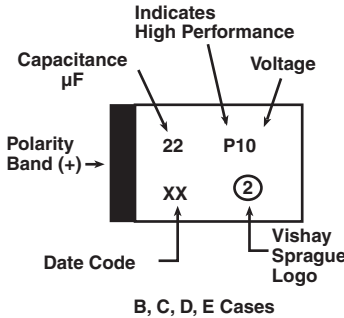
RATINGS AND CASE CODES								
μF	4 V	6.3 V	10 V	16 V	20 V	25 V	35 V	50 V
0.10							A (20.00, 10.00)	A (19.00, 10.00)
0.15								
0.22							A (15.00, 6.00)	A (15.00) B (12.00, 8.50)
0.33							A (13.00, 6.00)	B (10.00, 4.50)
0.47						A (12.00, 9.00)	A (10.00, 4.00) B (8.00, 2.50)	B (8.40, 4.00)
0.68					A (10.00, 8.00)	A (8.40) B (7.00, 5.00)	A (7.60, 4.00) B (6.50, 2.50)	
1.0				A (9.30, 6.00)	A (8.40, 5.50)	A (7.60, 4.00) B (5.00, 2.00)	A (7.50, 6.00, 4.00) B (5.00, 2.00)	B (6.70) C (4.60, 1.60)
1.5			A (8.00, 6.00)	A (6.70, 6.00)	A (6.30)	A (6.70, 4.00) B (4.60, 2.00)	B (4.20, 2.00) C (3.80)	
2.2		A (7.60, 6.00)	A (6.30)	A (5.90, 4.00) B (4.60, 2.50)	A (5.90, 4.00) B (3.50, 1.50)	A (6.30, 4.00) B (4.00, 3.80, 1.50) C (2.20)	B (3.80, 2.00) C (2.90, 0.90)	C (2.90, 1.50) D (2.10, 0.80)
3.3		A (6.30, 5.00)	A (5.50)	A (5.00, 4.00, 3.50) B (3.5, 2.0)	A (5.90, 4.00) B (3.00, 1.30)	B (3.10, 1.50) C (2.30, 1.00)	B (3.50) C (2.10, 0.70)	C (2.50, 1.50) D (1.70, 0.80)
4.7	A (6.30)	A (5.50, 3.50)	A (5.00, 4.50, 3.00, 2.00) B (3.40, 1.50)	A (5.00, 2.50, 2.00) B (2.90, 1.50)	A (5.00, 3.50) B (2.90, 1.00) C (2.30, 0.60)	B (2.80, 1.50) C (2.00, 0.525)	B (3.10, 1.50) C (1.90, 0.50) D (1.30, 0.45)	D (1.20, 0.60, 0.30)
6.8		A (5.00) B (3.40)	A (4.20, 3.00) B (2.90, 1.20)	A (4.20, 3.80, 3.00) B (2.50) C (1.90, 0.60)	B (2.50, 1.00) C (1.90, 0.55)	C (1.70, 0.50)	C (1.80, 0.475) D (1.8, 1.10, 0.30)	D (0.90, 0.60)
10		A (3.40, 2.00) B (2.90, 1.00)	A (3.40, 2.00) B (2.50, 0.60, 0.80) C (1.80, 0.55)	A (3.00, 1.70) B (2.00, 0.80) C (1.80, 0.45)	B (2.10, 2.5, 1.00) C (1.70, 0.50, 0.45)	C (1.50, 0.45) D (1.00, 0.30)	C (1.60, 0.45) D (0.80, 0.30, 0.135)	D (0.80, 0.55) E (0.80, 0.55, 0.30)
15		A (2.90, 2.00) B (2.50)	A (2.90, 2.00) B (2.00, 1.20, 0.70) C (1.80, 0.50)	B (2.00, 0.80) C (1.50, 0.40)	B (2.30, 1.00) C (1.50, 0.40) D (0.90, 0.30)	C (1.20, 0.425) D (0.80, 0.25)	D (0.70, 0.30, 0.26)	
22		A (2.90, 2.00) B (2.00, 0.60) C (1.80, 0.50)	A (2.50, 1.50) B (1.90, 0.60, 0.70) C (1.50, 0.40, 0.345, 0.245)	B (1.90, 0.70, 0.60) C (1.40, 0.8, 0.375, 0.35) D (0.80, 0.25)	C (1.10, 0.375) D (0.70, 0.225)	C (1.20, 0.40) D (0.70, 0.20)	D (0.60, 0.30, 0.20) E (0.60, 0.275)	
33	B (2.00) C (2.0, 1.80, 0.50)	A (2.50, 0.80) B (1.90, 0.60) C (1.50, 0.375)	B (1.90, 1.50, 0.60) C (1.40, 0.60, 0.30) D (0.80, 0.25)	C (1.10, 0.30) D (0.70, 0.225)	C (1.00, 0.35) D (0.70, 0.20)			
47		B (1.90, 0.60, 0.55, 0.50) C (1.40, 0.30) D (0.80, 0.20)	B (1.80, 0.60) C (1.10, 0.30) D (0.70, 0.20)	C (1.00, 0.30) D (0.70, 0.20, 0.15, 0.12)	D (0.70, 0.25, 0.20, 0.15) E (0.60, 0.15)	E (0.60, 0.20)		
68	B (1.4) C (1.4)	B (1.80, 0.55) C (0.80, 0.275) D (0.70, 0.20)	C (1.00, 0.275) D (0.70, 0.15)	D (0.60, 0.15)				
100		B (0.9, 1.7) C (0.80, 0.25) D (0.70, 0.13, 0.15, 0.14)	C (0.90, 0.25, 0.20) D (0.60, 0.10, 0.15)	D (0.60, 0.15, 0.125) E (0.60, 0.10)	E (0.50, 0.15)			
150		D (0.60, 0.15)	D (0.60, 0.10) E (0.50, 0.10)	E (0.50, 0.10)				
220		D (0.60, 0.10) E (0.50, 0.10)	D (0.60, 0.125) E (0.50, 0.10)	E (0.50, 0.10)				
330		D (0.60, 0.125) E (0.50, 0.10)						
470		E (0.50, 0.10)						

Note

- ESR limits in Ω shown in parenthesis

MARKING

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

Indicates High Performance		
Capacitance μF	Voltage	
22	P10	
XX		

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.

STANDARD RATINGS

CAPACITANCE (μF)	CASE CODE	PART NUMBER	MAX. DCL AT + 25 °C (μA)	MAX. DF AT + 25 °C 120 Hz (%)	MAX. ESR AT + 25 °C 100 kHz (Ω)	MAX. RIPPLE 100 kHz I _{RMS} (A)
4 V_{DC} AT + 85 °C; 2.7 V_{DC} AT + 125 °C						
4.7	A	TP3A475(1)004(2)6300AS	0.5	6	6.300	0.11
33	B	TP3B336(1)004(2)2000AS	1.3	6	2.000	0.21
33	C	TP3C336(1)004(2)2000AS	1.3	6	2.000	0.25
33	C	TP3C336(1)004(2)1800AS	1.3	6	1.800	0.25
33	C	TP3C336(1)004(2)0500AS	1.3	6	0.500	0.47
68	B	TP3B686(1)004(2)1400AS	2.7	6	1.400	0.28
68	C	TP3C686(1)004(2)1400AS	2.7	6	1.400	0.28
6.3 V_{DC} AT + 85 °C; 4 V_{DC} AT 125 °C						
2.2	A	TP3A225(1)6R3(2)7600AS	0.5	6	7.600	0.10
2.2	A	TP3A225(1)6R3(2)6000AS	0.5	6	6.000	0.11
3.3	A	TP3A335(1)6R3(2)6300AS	0.5	6	6.300	0.11
3.3	A	TP3A335(1)6R3(2)5000AS	0.5	6	5.000	0.12
4.7	A	TP3A475(1)6R3(2)5500AS	0.5	6	5.500	0.12
4.7	A	TP3A475(1)6R3(2)3500AS	0.5	6	3.500	0.15
6.8	A	TP3A685(1)6R3(2)5000AS	0.5	6	5.000	0.12
6.8	B	TP3B685(1)6R3(2)3400AS	0.5	6	3.400	0.16
10	A	TP3A106(1)6R3(2)3400AS	0.6	6	3.400	0.15
10	A	TP3A106(1)6R3(2)2000AS	0.6	6	2.000	0.19
10	B	TP3B106(1)6R3(2)2900AS	0.6	6	2.900	0.17
10	B	TP3B106(1)6R3(2)1000AS	0.6	6	1.000	0.29
15	A	TP3A156(1)6R3(2)2900AS	0.9	6	2.900	0.16
15	A	TP3A156(1)6R3(2)2000AS	0.9	6	2.000	0.19
15	B	TP3B156(1)6R3(2)2500AS	0.9	6	2.500	0.18
22	A	TP3A226(1)6R3(2)2900AS	1.3	6	2.900	0.16
22	A	TP3A226(1)6R3(2)2000AS	1.3	6	2.000	0.19

Notes

- Part number definitions:
 - Capacitance tolerance codes: K, M
 - Terminations and packaging codes: C, D, E, F
 - Lead (Pb)-free terminations and packaging codes: C, D



STANDARD RATINGS						
CAPACITANCE (μ F)	CASE CODE	PART NUMBER	MAX. DCL AT + 25 °C (μ A)	MAX. DF AT + 25 °C 120 Hz (%)	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						
22	B	TP3B226(1)6R3(2)2000AS	1.3	6	2.000	0.21
22	B	TP3B226(1)6R3(2)0600AS	1.3	6	0.600	0.38
22	C	TP3C226(1)6R3(2)1800AS	1.3	6	1.800	0.25
22	C	TP3C226(1)6R3(2)0500AS	1.3	6	0.500	0.47
33	A	TP3A336(1)6R3(2)2500AS	2.0	14	2.500	0.17
33	A	TP3A336(1)6R3(2)0800AS	2.0	14	0.800	0.31
33	B	TP3B336(1)6R3(2)1900AS	2.0	6	1.900	0.21
33	B	TP3B336(1)6R3(2)0600AS	2.0	6	0.600	0.38
33	C	TP3C336(1)6R3(2)1500AS	2.0	6	1.500	0.27
33	C	TP3C336(1)6R3(2)0375AS	2.0	6	0.375	0.54
47	B	TP3B476(1)6R3(2)1900AS	2.8	6	1.900	0.21
47	B	TP3B476(1)6R3(2)0600AS	2.8	6	0.600	0.38
47	B	TP3B476(1)6R3(2)0550AS	2.8	6	0.550	0.39
47	B	TP3B476(1)6R3(2)0500AS	2.8	6	0.500	0.41
47	C	TP3C476(1)6R3(2)1400AS	2.8	6	1.400	0.28
47	C	TP3C476(1)6R3(2)0300AS	2.8	6	0.300	0.61
47	D	TP3D476(1)6R3(2)0800AS	2.8	6	0.800	0.43
47	D	TP3D476(1)6R3(2)0200AS	2.8	6	0.200	0.87
68	B	TP3B686(1)6R3(2)1800AS	4.1	6	1.800	0.22
68	B	TP3B686(1)6R3(2)0550AS	4.1	6	0.550	0.39
68	C	TP3C686(1)6R3(2)0800AS	4.1	6	0.800	0.37
68	C	TP3C686(1)6R3(2)0275AS	4.1	6	0.275	0.63
68	D	TP3D686(1)6R3(2)0700AS	4.1	6	0.700	0.46
68	D	TP3D686(1)6R3(2)0200AS	4.1	6	0.200	0.87
100	B	TP3B107(1)6R3(2)0900AS	6.0	10	0.900	0.22
100	B	TP3B107(1)6R3(2)1700AS	6.0	10	1.700	0.22
100	C	TP3C107(1)6R3(2)0800AS	6.0	6	0.800	0.37
100	C	TP3C107(1)6R3(2)0250AS	6.0	6	0.250	0.66
100	D	TP3D107(1)6R3(2)0700AS	6.0	6	0.700	0.46
100	D	TP3D107(1)6R3(2)0150AS	6.0	6	0.150	1.00
100	D	TP3D107(1)6R3(2)0140AS	6.0	6	0.140	1.04
100	D	TP3D107(1)6R3(2)0130AS	6.0	6	0.130	1.07
150	D	TP3D157(1)6R3(2)0600AS	9.0	8	0.600	0.60
150	D	TP3D157(1)6R3(2)0150AS	9.0	8	0.150	1.10
220	D	TP3D227(1)6R3(2)0600AS	13.2	8	0.600	0.50
220	D	TP3D227(1)6R3(2)0100AS	13.2	8	0.100	1.22
220	E	TP3E227(1)6R3(2)0500AS	13.2	8	0.500	0.57
220	E	TP3E227(1)6R3(2)0100AS	13.2	8	0.100	1.28
330	D	TP3D337(1)6R3(2)0600AS	19.8	8	0.600	0.50
330	D	TP3D337(1)6R3(2)0125AS	19.8	8	0.125	1.10
330	E	TP3E337(1)6R3(2)0500AS	19.8	8	0.500	0.57
330	E	TP3E337(1)6R3(2)0100AS	19.8	8	0.100	1.28
470	E	TP3E477(1)6R3(2)0500AS	28.2	10	0.500	0.57
470	E	TP3E477(1)6R3(2)0100AS	28.2	10	0.100	1.28

Notes

- Part number definitions:
 - Capacitance tolerance codes: K, M
 - Terminations and packaging codes: C, D, E, F
 - Lead (Pb)-free terminations and packaging codes: C, D



STANDARD RATINGS						
CAPACITANCE (μ F)	CASE CODE	PART NUMBER	MAX. DCL AT + 25 °C (μ A)	MAX. DF AT + 25 °C 120 Hz (%)	MAX. ESR AT + 25 °C 100 kHz (Ω)	MAX. RIPPLE 100 kHz I_{RMS} (A)
10 V _{DC} AT + 85 °C; 7 V _{DC} AT 125 °C						
1.5	A	TP3A155(1)010(2)8000AS	0.5	6	8.000	0.10
1.5	A	TP3A155(1)010(2)6000AS	0.5	6	6.000	0.11
2.2	A	TP3A225(1)010(2)6300AS	0.5	6	6.300	0.11
3.3	A	TP3A335(1)010(2)5500AS	0.5	6	5.500	0.12
4.7	A	TP3A475(1)010(2)2000AS	0.5	6	2.000	0.19
4.7	A	TP3A475(1)010(2)5000AS	0.5	6	5.000	0.12
4.7	A	TP3A475(1)010(2)4500AS	0.5	6	4.500	0.13
4.7	A	TP3A475(1)010(2)3000AS	0.5	6	3.000	0.16
4.7	B	TP3B475(1)010(2)3400AS	0.5	6	3.400	0.16
4.7	B	TP3B475(1)010(2)1500AS	0.5	6	1.500	0.24
6.8	A	TP3A685(1)010(2)4200AS	0.7	6	4.200	0.13
6.8	A	TP3A685(1)010(2)3000AS	0.7	6	3.000	0.16
6.8	B	TP3B685(1)010(2)2900AS	0.7	6	2.900	0.17
6.8	B	TP3B685(1)010(2)1200AS	0.7	6	1.200	0.27
10	A	TP3A106(1)010(2)3400AS	1.0	6	3.400	0.15
10	A	TP3A106(1)010(2)2000AS	1.0	6	2.000	0.19
10	B	TP3B106(1)010(2)2500AS	1.0	6	2.500	0.18
10	B	TP3B106(1)010(2)0800AS	1.0	6	0.800	0.33
10	B	TP3B106(1)010(2)0600AS	1.0	6	0.600	0.38
10	C	TP3C106(1)010(2)1800AS	1.0	6	1.800	0.25
10	C	TP3C106(1)010(2)0550AS	1.0	6	0.550	0.45
15	A	TP3A156(1)010(2)2900AS	1.5	6	2.900	0.16
15	A	TP3A156(1)010(2)2000AS	1.5	6	2.000	0.19
15	B	TP3B156(1)010(2)2000AS	1.5	6	2.000	0.21
15	B	TP3B156(1)010(2)1200AS	1.5	6	1.200	0.27
15	B	TP3B156(1)010(2)0700AS	1.5	6	0.700	0.35
15	C	TP3C156(1)010(2)1800AS	1.5	6	1.800	0.25
15	C	TP3C156(1)010(2)0500AS	1.5	6	0.500	0.47
22	A	TP3A226(1)010(2)2500AS	2.2	8	2.500	0.17
22	A	TP3A226(1)010(2)1500AS	2.2	8	1.500	0.22
22	B	TP3B226(1)010(2)1900AS	2.2	6	1.900	0.21
22	B	TP3B226(1)010(2)0700AS	2.2	6	0.700	0.35
22	B	TP3B226(1)010(2)0600AS	2.2	6	0.600	0.38
22	C	TP3C226(1)010(2)1500AS	2.2	6	1.500	0.27
22	C	TP3C226(1)010(2)0400AS	2.2	6	0.400	0.52
22	C	TP3C226(1)010(2)0345AS	2.2	6	0.345	0.56
22	C	TP3C226(1)010(2)0245AS	2.2	6	0.245	0.67
33	B	TP3B336(1)010(2)1900AS	3.3	6	1.900	0.21
33	B	TP3B336(1)010(2)1500AS	3.3	6	1.500	0.24
33	B	TP3B336(1)010(2)0600AS	3.3	6	0.600	0.38
33	C	TP3C336(1)010(2)1400AS	3.3	6	1.400	0.28
33	C	TP3C336(1)010(2)0600AS	3.3	6	0.600	0.28
33	C	TP3C336(1)010(2)0300AS	3.3	6	0.300	0.61
33	D	TP3D336(1)010(2)0800AS	3.3	6	0.800	0.43

Notes

- Part number definitions:
 - Capacitance tolerance codes: K, M
 - Terminations and packaging codes: C, D, E, F
 - Lead (Pb)-free terminations and packaging codes: C, D



STANDARD RATINGS						
CAPACITANCE (μ F)	CASE CODE	PART NUMBER	MAX. DCL AT + 25 °C (μ A)	MAX. DF AT + 25 °C 120 Hz (%)	MAX. ESR AT + 25 °C 100 kHz (Ω)	MAX. RIPPLE 100 kHz I_{RMS} (A)
10 V _{DC} AT + 85 °C; 7 V _{DC} AT 125 °C						
33	D	TP3D336(1)010(2)0250AS	3.3	6	0.250	0.77
47	B	TP3B476(1)010(2)1800AS	4.7	6	1.800	0.22
47	B	TP3B476(1)010(2)0600AS	4.7	6	0.600	0.38
47	C	TP3C476(1)010(2)1100AS	4.7	6	1.100	0.32
47	C	TP3C476(1)010(2)0300AS	4.7	6	0.300	0.61
47	D	TP3D476(1)010(2)0700AS	4.7	6	0.700	0.46
47	D	TP3D476(1)010(2)0200AS	4.7	6	0.200	0.87
68	C	TP3C686(1)010(2)1000AS	6.8	6	1.000	0.33
68	C	TP3C686(1)010(2)0275AS	6.8	6	0.275	0.63
68	D	TP3D686(1)010(2)0700AS	6.8	6	0.700	0.46
68	D	TP3D686(1)010(2)0150AS	6.8	6	0.150	1.00
100	C	TP3C107(1)010(2)0900AS	10.0	8	0.900	0.35
100	C	TP3C107(1)010(2)0250AS	10.0	8	0.250	0.66
100	C	TP3C107(1)010(2)0200AS	10.0	8	0.200	0.74
100	D	TP3D107(1)010(2)0600AS	10.0	8	0.600	0.50
100	D	TP3D107(1)010(2)0150AS	10.0	8	0.150	1.00
100	D	TP3D107(1)010(2)0100AS	10.0	8	0.100	1.22
150	D	TP3D157(1)010(2)0600AS	15.0	8	0.600	0.50
150	D	TP3D157(1)010(2)0100AS	15.0	8	0.100	1.22
150	E	TP3E157(1)010(2)0500AS	15.0	8	0.500	0.57
150	E	TP3E157(1)010(2)0100AS	15.0	8	0.100	1.28
220	D	TP3D227(1)010(2)0600AS	22.0	8	0.600	0.50
220	D	TP3D227(1)010(2)0125AS	22.0	8	0.125	1.10
220	E	TP3E227(1)010(2)0500AS	22.0	8	0.500	0.57
220	E	TP3E227(1)010(2)0100AS	22.0	8	0.100	1.28
16 V _{DC} AT + 85 °C; 10 V _{DC} AT + 125 °C						
1.0	A	TP3A105(1)016(2)9300AS	0.5	4	9.300	0.09
1.0	A	TP3A105(1)016(2)6000AS	0.5	4	6.000	0.11
1.5	A	TP3A155(1)016(2)6700AS	0.5	6	6.700	0.11
1.5	A	TP3A155(1)016(2)6000AS	0.5	6	6.000	0.11
2.2	A	TP3A225(1)016(2)5900AS	0.5	6	5.900	0.11
2.2	A	TP3A225(1)016(2)4000AS	0.5	6	4.000	0.14
2.2	B	TP3B225(1)016(2)4600AS	0.5	6	4.600	0.14
2.2	B	TP3B225(1)016(2)2500AS	0.5	6	2.500	0.18
3.3	A	TP3A335(1)016(2)5000AS	0.5	6	5.000	0.12
3.3	A	TP3A335(1)016(2)4000AS	0.5	6	4.000	0.14
3.3	A	TP3A335(1)016(2)3500AS	0.5	6	3.500	0.15
3.3	B	TP3B335(1)016(2)3500AS	0.5	6	3.500	0.16
3.3	B	TP3B335(1)016(2)2000AS	0.5	6	2.000	0.21
4.7	A	TP3A475(1)016(2)5000AS	0.8	6	5.000	0.12
4.7	A	TP3A475(1)016(2)2500AS	0.8	6	2.500	0.17
4.7	A	TP3A475(1)016(2)2000AS	0.8	6	2.000	0.19
4.7	B	TP3B475(1)016(2)2900AS	0.8	6	2.900	0.17
4.7	B	TP3B475(1)016(2)1500AS	0.8	6	1.500	0.24

Notes

- Part number definitions:
 - Capacitance tolerance codes: K, M
 - Terminations and packaging codes: C, D, E, F
 - Lead (Pb)-free terminations and packaging codes: C, D



STANDARD RATINGS						
CAPACITANCE (μ F)	CASE CODE	PART NUMBER	MAX. DCL AT + 25 °C (μ A)	MAX. DF AT + 25 °C 120 Hz (%)	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						
6.8	A	TP3A685(1)016(2)4200AS	1.1	6	4.200	0.13
6.8	A	TP3A685(1)016(2)3800AS	1.1	6	3.800	0.14
6.8	A	TP3A685(1)016(2)3000AS	1.1	6	3.000	0.16
6.8	B	TP3B685(1)016(2)2500AS	1.1	6	2.500	0.18
6.8	C	TP3C685(1)016(2)1900AS	1.1	6	1.900	0.24
6.8	C	TP3C685(1)016(2)0600AS	1.1	6	0.600	0.43
10	A	TP3A106(1)016(2)3000AS	1.6	6	3.000	0.16
10	A	TP3A106(1)016(2)1700AS	1.6	6	1.700	0.21
10	B	TP3B106(1)016(2)2000AS	1.6	6	2.000	0.21
10	B	TP3B106(1)016(2)0800AS	1.6	6	0.800	0.33
10	C	TP3C106(1)016(2)1800AS	1.6	6	1.800	0.25
10	C	TP3C106(1)016(2)0450AS	1.6	6	0.450	0.49
15	B	TP3B156(1)016(2)2000AS	2.4	6	2.000	0.21
15	B	TP3B156(1)016(2)0800AS	2.4	6	0.800	0.33
15	C	TP3C156(1)016(2)1500AS	2.4	6	1.500	0.27
15	C	TP3C156(1)016(2)0400AS	2.4	6	0.400	0.52
22	B	TP3B226(1)016(2)1900AS	3.5	6	1.900	0.21
22	B	TP3B226(1)016(2)0700AS	3.5	6	0.700	0.35
22	B	TP3B226(1)016(2)0600AS	3.5	6	0.600	0.38
22	C	TP3C226(1)016(2)1400AS	3.5	6	1.400	0.28
22	C	TP3C226(1)016(2)0800AS	3.5	6	0.800	0.28
22	C	TP3C226(1)016(2)0375AS	3.5	6	0.375	0.54
22	C	TP3C226(1)016(2)0350AS	3.5	6	0.350	0.56
22	D	TP3D226(1)016(2)0800AS	3.5	6	0.800	0.43
22	D	TP3D226(1)016(2)0250AS	3.5	6	0.250	0.77
33	C	TP3C336(1)016(2)1100AS	5.3	6	1.100	0.32
33	C	TP3C336(1)016(2)0300AS	5.3	6	0.300	0.61
33	D	TP3D336(1)016(2)0700AS	5.3	6	0.700	0.46
33	D	TP3D336(1)016(2)0225AS	5.3	6	0.225	0.82
47	C	TP3C476(1)016(2)1000AS	7.5	6	1.000	0.33
47	C	TP3C476(1)016(2)0300AS	7.5	6	0.300	0.61
47	D	TP3D476(1)016(2)0700AS	7.5	6	0.700	0.46
47	D	TP3D476(1)016(2)0200AS	7.5	6	0.200	0.87
47	D	TP3D476(1)016(2)0150AS	7.5	6	0.150	1.00
47	D	TP3D476(1)016(2)0120AS	7.5	6	0.120	1.12
68	D	TP3D686(1)016(2)0600AS	10.9	6	0.600	0.50
68	D	TP3D686(1)016(2)0150AS	10.9	6	0.150	1.00
100	D	TP3D107(1)016(2)0600AS	16.0	8	0.600	0.50
100	D	TP3D107(1)016(2)0150AS	16.0	8	0.150	1.00
100	D	TP3D107(1)016(2)0125AS	16.0	8	0.125	1.10
100	E	TP3E107(1)016(2)0600AS	16.0	8	0.600	0.52
100	E	TP3E107(1)016(2)0100AS	16.0	8	0.100	1.28
150	E	TP3E157(1)016(2)0500AS	24.0	8	0.500	0.57
150	E	TP3E157(1)016(2)0100AS	24.0	8	0.100	1.28
220	E	TP3E227(1)016(2)0500AS	35.2	14	0.500	0.57
220	E	TP3E227(1)016(2)0100AS	35.2	14	0.100	1.28

Notes

- Part number definitions:
 - Capacitance tolerance codes: K, M
 - Terminations and packaging codes: C, D, E, F
 - Lead (Pb)-free terminations and packaging codes: C, D



STANDARD RATINGS						
CAPACITANCE (μ F)	CASE CODE	PART NUMBER	MAX. DCL AT + 25 °C (μ A)	MAX. DF AT + 25 °C 120 Hz (%)	MAX. ESR AT + 25 °C 100 kHz (Ω)	MAX. RIPPLE 100 kHz I_{RMS} (A)
20 V _{DC} AT + 85 °C; 13 V _{DC} AT + 125 °C						
0.68	A	TP3A684(1)020(2)10R0AS	0.5	4	10.000	0.09
0.68	A	TP3A684(1)020(2)8000AS	0.5	4	8.000	0.10
1.0	A	TP3A105(1)020(2)8400AS	0.5	4	8.400	0.09
1.0	A	TP3A105(1)020(2)5500AS	0.5	4	5.500	0.12
1.5	A	TP3A155(1)020(2)6300AS	0.5	6	6.300	0.11
2.2	A	TP3A225(1)020(2)5900AS	0.5	6	5.900	0.11
2.2	A	TP3A225(1)020(2)4000AS	0.5	6	4.000	0.14
2.2	B	TP3B225(1)020(2)3500AS	0.5	6	3.500	0.16
2.2	B	TP3B225(1)020(2)1500AS	0.5	6	1.500	0.24
3.3	A	TP3A335(1)020(2)5900AS	0.7	6	5.900	0.11
3.3	A	TP3A335(1)020(2)4000AS	0.7	6	4.000	0.14
3.3	B	TP3B335(1)020(2)3000AS	0.7	6	3.000	0.17
3.3	B	TP3B335(1)020(2)1300AS	0.7	6	1.300	0.26
4.7	A	TP3A475(1)020(2)5000AS	0.9	6	5.000	0.12
4.7	A	TP3A475(1)020(2)3500AS	0.9	6	3.500	0.15
4.7	B	TP3B475(1)020(2)2900AS	0.9	6	2.900	0.17
4.7	B	TP3B475(1)020(2)1000AS	0.9	6	1.000	0.29
4.7	C	TP3C475(1)020(2)2300AS	0.9	6	2.300	0.22
4.7	C	TP3C475(1)020(2)0600AS	0.9	6	0.600	0.43
6.8	B	TP3B685(1)020(2)2500AS	1.4	6	2.500	0.18
6.8	B	TP3B685(1)020(2)1000AS	1.4	6	1.000	0.29
6.8	C	TP3C685(1)020(2)1900AS	1.4	6	1.900	0.24
6.8	C	TP3C685(1)020(2)0550AS	1.4	6	0.550	0.45
10	B	TP3B106(1)020(2)2500AS	2.0	6	2.500	0.18
10	B	TP3B106(1)020(2)2100AS	2.0	6	2.100	0.20
10	B	TP3B106(1)020(2)1000AS	2.0	6	1.000	0.29
10	C	TP3C106(1)020(2)1700AS	2.0	6	1.700	0.25
10	C	TP3C106(1)020(2)0500AS	2.0	6	0.500	0.47
10	C	TP3C106(1)020(2)0450AS	2.0	6	0.450	0.49
15	B	TP3B156(1)020(2)2300AS	3.0	6	2.300	0.19
15	B	TP3B156(1)020(2)1000AS	3.0	6	1.000	0.29
15	C	TP3C156(1)020(2)1500AS	3.0	6	1.500	0.27
15	C	TP3C156(1)020(2)0400AS	3.0	6	0.400	0.52
15	D	TP3D156(1)020(2)0900AS	3.0	6	0.900	0.41
15	D	TP3D156(1)020(2)0300AS	3.0	6	0.300	0.71
22	C	TP3C226(1)020(2)1100AS	4.4	6	1.100	0.32
22	C	TP3C226(1)020(2)0375AS	4.4	6	0.375	0.54
22	D	TP3D226(1)020(2)0700AS	4.4	6	0.700	0.46
22	D	TP3D226(1)020(2)0225AS	4.4	6	0.225	0.82
33	C	TP3C336(1)020(2)1000AS	6.6	6	1.000	0.33
33	C	TP3C336(1)020(2)0350AS	6.6	6	0.350	0.56
33	D	TP3D336(1)020(2)0700AS	6.6	6	0.700	0.46
33	D	TP3D336(1)020(2)0200AS	6.6	6	0.200	0.87
47	D	TP3D476(1)020(2)0700AS	9.4	6	0.700	0.46

Notes

- Part number definitions:
 - Capacitance tolerance codes: K, M
 - Terminations and packaging codes: C, D, E, F
 - Lead (Pb)-free terminations and packaging codes: C, D



STANDARD RATINGS						
CAPACITANCE (μ F)	CASE CODE	PART NUMBER	MAX. DCL AT + 25 °C (μ A)	MAX. DF AT + 25 °C 120 Hz (%)	MAX. ESR AT + 25 °C 100 kHz (Ω)	MAX. RIPPLE 100 kHz I_{RMS} (A)
20 V _{DC} AT + 85 °C; 13 V _{DC} AT + 125 °C						
47	D	TP3D476(1)020(2)0250AS	9.4	6	0.250	0.77
47	D	TP3D476(1)020(2)0200AS	9.4	6	0.200	0.87
47	D	TP3D476(1)020(2)0150AS	9.4	6	0.150	1.00
47	E	TP3E476(1)020(2)0600AS	9.4	6	0.600	0.52
47	E	TP3E476(1)020(2)0150AS	9.4	6	0.150	1.05
100	E	TP3E107(1)020(2)0500AS	20.0	8	0.500	0.57
100	E	TP3E107(1)020(2)0150AS	20.0	8	0.150	1.05
25 V _{DC} AT + 85 °C; 17 V _{DC} AT + 125 °C						
0.47	A	TP3A474(1)025(2)12R0AS	0.5	4	12.000	0.08
0.47	A	TP3A474(1)025(2)9000AS	0.5	4	9.000	0.09
0.68	A	TP3A684(1)025(2)8400AS	0.5	4	8.400	0.09
0.68	B	TP3B684(1)025(2)7000AS	0.5	4	7.000	0.11
0.68	B	TP3B684(1)025(2)5000AS	0.5	4	5.000	0.13
1.0	A	TP3A105(1)025(2)7600AS	0.5	4	7.600	0.10
1.0	A	TP3A105(1)025(2)4000AS	0.5	4	4.000	0.14
1.0	B	TP3B105(1)025(2)5000AS	0.5	4	5.000	0.13
1.0	B	TP3B105(1)025(2)2000AS	0.5	4	2.000	0.21
1.5	A	TP3A155(1)025(2)6700AS	0.5	6	6.700	0.11
1.5	A	TP3A155(1)025(2)4000AS	0.5	6	4.000	0.14
1.5	B	TP3B155(1)025(2)4600AS	0.5	6	4.600	0.14
1.5	B	TP3B155(1)025(2)2000AS	0.5	6	2.000	0.21
2.2	A	TP3A225(1)025(2)6300AS	0.6	6	6.300	0.11
2.2	A	TP3A225(1)025(2)4000AS	0.6	6	4.000	0.14
2.2	B	TP3B225(1)025(2)3800AS	0.6	6	3.800	0.15
2.2	B	TP3B225(1)025(2)1500AS	0.6	6	1.500	0.24
2.2	B	TP3B225(1)025(2)4000AS	0.6	6	4.000	0.24
2.2	C	TP3C225(1)025(2)2200AS	0.6	6	2.200	0.22
3.3	B	TP3B335(1)025(2)3100AS	0.8	6	3.100	0.17
3.3	B	TP3B335(1)025(2)1500AS	0.8	6	1.500	0.24
3.3	C	TP3C335(1)025(2)2300AS	0.8	6	2.300	0.22
3.3	C	TP3C335(1)025(2)1000AS	0.8	6	1.000	0.33
4.7	B	TP3B475(1)025(2)2800AS	1.2	6	2.800	0.17
4.7	B	TP3B475(1)025(2)1500AS	1.2	6	1.500	0.24
4.7	C	TP3C475(1)025(2)2000AS	1.2	6	2.000	0.24
4.7	C	TP3C475(1)025(2)0525AS	1.2	6	0.525	0.46
6.8	C	TP3C685(1)025(2)1700AS	1.7	6	1.700	0.25
6.8	C	TP3C685(1)025(2)0500AS	1.7	6	0.500	0.47
10	C	TP3C106(1)025(2)1500AS	2.5	6	1.500	0.27
10	C	TP3C106(1)025(2)0450AS	2.5	6	0.450	0.49
10	D	TP3D106(1)025(2)1000AS	2.5	6	1.000	0.39
10	D	TP3D106(1)025(2)0300AS	2.5	6	0.300	0.71
15	C	TP3C156(1)025(2)1200AS	3.8	6	1.200	0.30
15	C	TP3C156(1)025(2)0425AS	3.8	6	0.425	0.51
15	D	TP3D156(1)025(2)0800AS	3.8	6	0.800	0.43
15	D	TP3D156(1)025(2)0250AS	3.8	6	0.250	0.77
22	C	TP3C226(1)025(2)1200AS	5.5	6	1.200	0.30
22	C	TP3C226(1)025(2)0400AS	5.5	6	0.400	0.52
22	D	TP3D226(1)025(2)0700AS	5.5	6	0.700	0.46
22	D	TP3D226(1)025(2)0200AS	5.5	6	0.200	0.87
47	E	TP3E476(1)025(2)0600AS	11.8	6	0.600	0.52
47	E	TP3E476(1)025(2)0200AS	11.8	6	0.200	0.91

Notes

- Part number definitions:
 - Capacitance tolerance codes: K, M
 - Terminations and packaging codes: C, D, E, F
 - Lead (Pb)-free terminations and packaging codes: C, D



STANDARD RATINGS						
CAPACITANCE (μ F)	CASE CODE	PART NUMBER	MAX. DCL AT + 25 °C (μ A)	MAX. DF AT + 25 °C 120 Hz (%)	MAX. ESR AT + 25 °C 100 kHz (Ω)	MAX. RIPPLE 100 kHz I_{RMS} (A)
35 V _{DC} AT + 85 °C; 23 V _{DC} AT + 125 °C						
0.10	A	TP3A104(1)035(2)20R0AS	0.5	4	20.000	0.06
0.10	A	TP3A104(1)035(2)10R0AS	0.5	4	10.000	0.09
0.22	A	TP3A224(1)035(2)15R0AS	0.5	4	15.000	0.07
0.22	A	TP3A224(1)035(2)6000AS	0.5	4	6.000	0.11
0.33	A	TP3A334(1)035(2)13R0AS	0.5	4	13.000	0.08
0.33	A	TP3A334(1)035(2)6000AS	0.5	4	6.000	0.11
0.47	A	TP3A474(1)035(2)10R0AS	0.5	4	10.000	0.09
0.47	A	TP3A474(1)035(2)4000AS	0.5	4	4.000	0.14
0.47	B	TP3B474(1)035(2)8000AS	0.5	4	8.000	0.10
0.47	B	TP3B474(1)035(2)2500AS	0.5	4	2.500	0.18
0.68	A	TP3A684(1)035(2)7600AS	0.5	4	7.600	0.10
0.68	A	TP3A684(1)035(2)4000AS	0.5	4	4.000	0.14
0.68	B	TP3B684(1)035(2)6500AS	0.5	4	6.500	0.11
0.68	B	TP3B684(1)035(2)2500AS	0.5	4	2.500	0.18
1.0	A	TP3A105(1)035(2)7500AS	0.5	4	7.500	0.10
1.0	A	TP3A105(1)035(2)6000AS	0.5	4	6.000	0.11
1.0	A	TP3A105(1)035(2)4000AS	0.5	4	4.000	0.14
1.0	B	TP3B105(1)035(2)5000AS	0.5	4	5.000	0.13
1.0	B	TP3B105(1)035(2)2000AS	0.5	4	2.000	0.21
1.5	B	TP3B155(1)035(2)4200AS	0.5	6	4.200	0.14
1.5	B	TP3B155(1)035(2)2000AS	0.5	6	2.000	0.21
1.5	C	TP3C155(1)035(2)3800AS	0.5	6	3.800	0.17
2.2	B	TP3B225(1)035(2)3800AS	0.8	6	3.800	0.15
2.2	B	TP3B225(1)035(2)2000AS	0.8	6	2.000	0.21
2.2	C	TP3C225(1)035(2)2900AS	0.8	6	2.900	0.20
2.2	C	TP3C225(1)035(2)0900AS	0.8	6	0.900	0.35
3.3	B	TP3B335(1)035(2)3500AS	1.2	6	3.500	0.16
3.3	C	TP3C335(1)035(2)2100AS	1.2	6	2.100	0.23
3.3	C	TP3C335(1)035(2)0700AS	1.2	6	0.700	0.40
4.7	B	TP3B475(1)035(2)3100AS	1.7	6	3.100	0.17
4.7	B	TP3B475(1)035(2)1500AS	1.7	6	1.500	0.24
4.7	C	TP3C475(1)035(2)1900AS	1.6	6	1.900	0.24
4.7	C	TP3C475(1)035(2)0500AS	1.6	6	0.500	0.47
4.7	D	TP3D475(1)035(2)1300AS	1.6	6	1.300	0.34
4.7	D	TP3D475(1)035(2)0450AS	1.6	6	0.450	0.58
6.8	C	TP3C685(1)035(2)1800AS	2.4	6	1.800	0.25
6.8	C	TP3C685(1)035(2)0475AS	2.4	6	0.475	0.48
6.8	D	TP3D685(1)035(2)1800AS	2.4	6	1.800	0.37
6.8	D	TP3D685(1)035(2)1100AS	2.4	6	1.100	0.37
6.8	D	TP3D685(1)035(2)0300AS	2.4	6	0.300	0.71
10	C	TP3C106(1)035(2)1600AS	3.5	6	1.600	0.26
10	C	TP3C106(1)035(2)0450AS	3.5	6	0.450	0.49
10	D	TP3D106(1)035(2)0800AS	3.5	6	0.800	0.43
10	D	TP3D106(1)035(2)0300AS	3.5	6	0.300	0.71

Notes

- Part number definitions:
 - Capacitance tolerance codes: K, M
 - Terminations and packaging codes: C, D, E, F
 - Lead (Pb)-free terminations and packaging codes: C, D



STANDARD RATINGS						
CAPACITANCE (μ F)	CASE CODE	PART NUMBER	MAX. DCL AT + 25 °C (μ A)	MAX. DF AT + 25 °C 120 Hz (%)	MAX. ESR AT + 25 °C 100 kHz (Ω)	MAX. RIPPLE 100 kHz I_{RMS} (A)
35 V _{DC} AT + 85 °C; 23 V _{DC} AT + 125 °C						
10	D	TP3D106(1)035(2)0135AS	3.5	6	0.135	1.05
15	D	TP3D156(1)035(2)0700AS	5.3	6	0.700	0.46
15	D	TP3D156(1)035(2)0300AS	5.3	6	0.300	0.71
15	D	TP3D156(1)035(2)0260AS	5.3	6	0.260	0.76
22	D	TP3D226(1)035(2)0600AS	7.7	6	0.600	0.50
22	D	TP3D226(1)035(2)0300AS	7.7	6	0.300	0.71
22	D	TP3D226(1)035(2)0200AS	7.7	6	0.200	0.87
22	E	TP3E226(1)035(2)0600AS	7.7	6	0.600	0.52
22	E	TP3E226(1)035(2)0275AS	7.7	6	0.275	0.77
50 V _{DC} AT + 85 °C; 33 V _{DC} AT + 125 °C						
0.10	A	TP3A104(1)050(2)19R0AS	0.5	4	19.000	0.06
0.10	A	TP3A104(1)050(2)10R0AS	0.5	4	10.000	0.09
0.22	A	TP3A224(1)050(2)15R0AS	0.5	4	15.000	0.07
0.22	B	TP3B224(1)050(2)12R0AS	0.5	4	12.000	0.08
0.22	B	TP3B224(1)050(2)8500AS	0.5	4	8.500	0.10
0.33	B	TP3B334(1)050(2)10R0AS	0.5	4	10.000	0.09
0.33	B	TP3B334(1)050(2)4500AS	0.5	4	4.500	0.14
0.47	B	TP3B474(1)050(2)8400AS	0.5	4	8.400	0.10
0.47	B	TP3B474(1)050(2)4000AS	0.5	4	4.000	0.15
1.0	B	TP3B105(1)050(2)6700AS	0.5	4	6.700	0.11
1.0	C	TP3C105(1)050(2)4600AS	0.5	4	4.600	0.16
1.0	C	TP3C105(1)050(2)1600AS	0.5	4	1.600	0.26
2.2	C	TP3C225(1)050(2)2900AS	1.1	6	2.900	0.20
2.2	C	TP3C225(1)050(2)1500AS	1.1	6	1.500	0.27
2.2	D	TP3D225(1)050(2)2100AS	1.1	6	2.100	0.27
2.2	D	TP3D225(1)050(2)0800AS	1.1	6	0.800	0.43
3.3	C	TP3C335(1)050(2)2500AS	1.7	6	2.500	0.21
3.3	C	TP3C335(1)050(2)1500AS	1.7	6	1.500	0.27
3.3	D	TP3D335(1)050(2)1700AS	1.7	6	1.700	0.30
3.3	D	TP3D335(1)050(2)0800AS	1.7	6	0.800	0.43
4.7	D	TP3D475(1)050(2)1200AS	2.4	6	1.200	0.37
4.7	D	TP3D475(1)050(2)0600AS	2.4	6	0.600	0.50
4.7	D	TP3D475(1)050(2)0300AS	2.4	6	0.300	0.71
6.8	D	TP3D685(1)050(2)0900AS	3.4	6	0.900	0.41
6.8	D	TP3D685(1)050(2)0600AS	3.4	6	0.600	0.50
10	D	TP3D106(1)050(2)0800AS	5.0	6	0.800	0.43
10	D	TP3D106(1)050(2)0550AS	5.0	6	0.550	0.52
10	E	TP3E106(1)050(2)0800AS	5.0	6	0.800	0.45
10	E	TP3E106(1)050(2)0550AS	5.0	6	0.550	0.55
10	E	TP3E106(1)050(2)0300AS	5.0	6	0.300	0.74

Notes

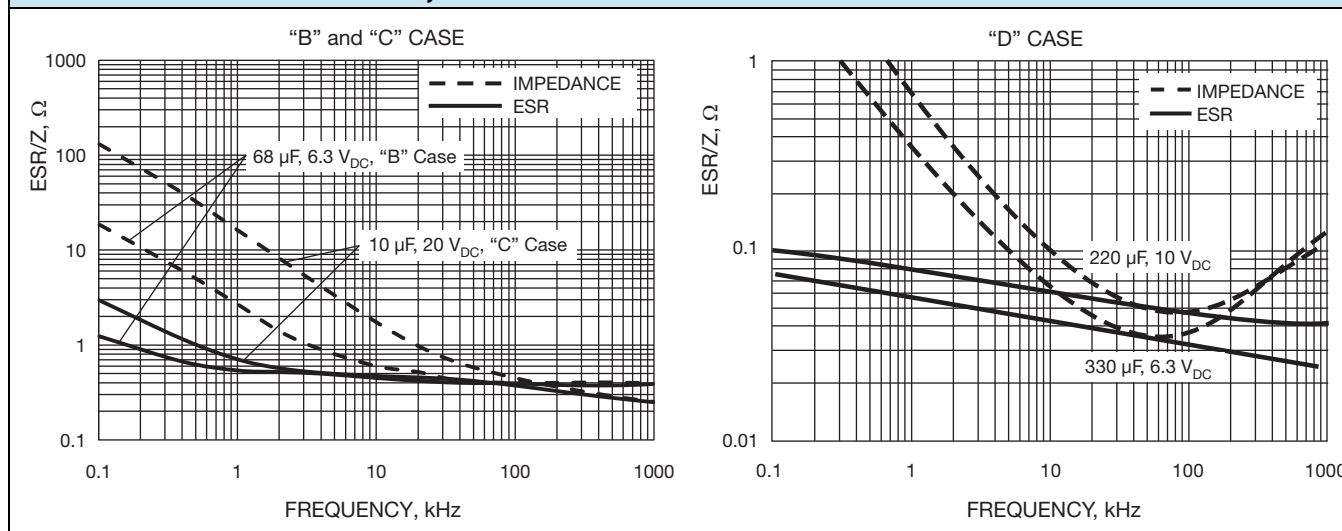
- Part number definitions:
 - Capacitance tolerance codes: K, M
 - Terminations and packaging codes: C, D, E, F
 - Lead (Pb)-free terminations and packaging codes: C, D

**RECOMMENDED VOLTAGE DERATING GUIDELINES** (for temperatures below + 85 °C)**STANDARD CONDITIONS. FOR EXAMPLE: OUTPUT FILTERS**

Capacitor Voltage Rating	Operating Voltage
4.0	2.5
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
4.0	2.5
6.3	3.3
10	5.0
16	8.0
20	10
25	12
35	15
50	24

TYPICAL CURVES AT + 25 °C, IMPEDANCE AND ESR VS. FREQUENCY**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	
Packaging 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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