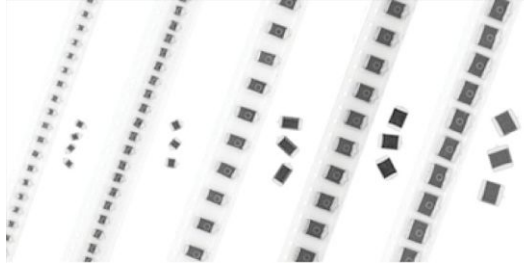


Solid Tantalum Chip Capacitors TANTAMOUNT[®], Low Profile, Low ESR, Conformal Coated, Maximum CV



FEATURES

- New robust ratings for pulsed applications
- New case size offerings
- 1.2 mm to 2 mm height
- Terminations: 100 % matte tin (2) standard, tin/lead available
- Mounting: Surface mount
- Very low ESR
- 8 mm, 12 mm tape and reel packaging available per EIA-481 and reeling per IEC 60286-3
7" [178 mm] standard
13" [330 mm] available
- Footprint compatible with EIA 535BAAC and CECC 30801
- See also 592W for additional ratings designs for pulsed applications
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912


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 + 125 °C
(above 85 °C, voltage derating is required)

Capacitance Range: 1 µF to 1000 µF

Capacitance Tolerance: ± 10 %, ± 20 % standard

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

ORDERING INFORMATION							
591D	106	X0	010	B	2	T	15H
TYPE	CAPACITANCE	CAPACITANCE TOLERANCE	DC VOLTAGE RATING AT + 85 °C	CASE CODE	TERMINATION	REEL SIZE AND PACKAGING	SUFFIX
	This is expressed in picofarads. The first two digits are the significant figures. The third is the number of zeros to follow.	X0 = ± 20 % X9 = ± 10 %	This is expressed in volts. To complete the three-digit block, zeros precede the voltage rating. A decimal point is indicated by an "R" (6R3 = 6.3 V).	See Ratings and Case Codes table	2 = 100 % tin 4 = Gold plated 8 = Solder plated 60/40 Special order	T = Tape and reel 7" [178 mm] reel W = 13" [330 mm] reel	Maximum height (mm) see Standard Ratings table

Note

- Preferred tolerance and reel sizes are in bold.
We reserve the right to supply higher voltage ratings and tighter capacitance tolerance capacitors in the same case size.

DIMENSIONS in inches [millimeters]						
CASE CODE	L MAX.	W	A	B	D REF.	J MAX.
A	0.146 [3.7]	0.071 ± 0.012 [1.8 ± 0.3]	0.031 ± 0.012 [0.8 ± 0.3]	0.087 ± 0.016 [2.2 ± 0.4]	0.114 [2.9]	0.004 [0.1]
B	0.157 [4.0]	0.110 + 0.012/- 0.016 [2.8 + 0.3/- 0.4]	0.031 ± 0.012 [0.8 ± 0.3]	0.098 ± 0.016 [2.5 ± 0.4]	0.138 [3.5]	0.004 [0.1]
C	0.28 [7.1]	0.126 ± 0.012 [3.2 ± 0.3]	0.051 ± 0.012 [1.3 ± 0.3]	0.173 ± 0.024 [4.4 ± 0.6]	0.236 [6.0]	0.004 [0.1]
D	0.295 [7.5]	0.169 ± 0.012 [4.3 ± 0.3]	0.051 ± 0.012 [1.3 ± 0.3]	0.181 ± 0.024 [4.6 ± 0.6]	0.252 [6.4]	0.004 [0.1]
M	0.295 [7.5]	0.248 ± 0.012 [6.3 ± 0.3]	0.051 ± 0.012 [1.3 ± 0.3]	0.200 ± 0.024 [5.1 ± 0.6]	0.264 [6.7]	0.004 [0.1]
R	0.283 [7.2]	0.236 + 0.012/- 0.024 [6.0 + 0.3/- 0.6]	0.051 ± 0.012 [1.3 ± 0.3]	0.181 ± 0.024 [4.6 ± 0.6]	0.244 [6.2]	0.004 [0.1]

Notes

- The anode termination (D less B) will be a minimum of 0.012" [0.3 mm]
- (1) For package height, please refer to specific rating in the "Standard Ratings" table

RATINGS AND CASE CODES								
μF	4 V	6.3 V	10 V	16 V	20 V	25 V	35 V	50 V
1.0							A/B	B
1.5							B	
2.2					A	A/B	B/C	
3.3			A	A	A/B	C	B	C
4.7			A	A/B	B/C	C/D	D/R	
6.8		A	A/B	B/C	B/D	B/D/R	R	
10		A/B	B	B/D	C	R		
15	A/B	A/B	A/B/C	C/D	D/R			
22	B	A/B/C	C/D	C/D/R	R	C		
33	B/C	B/C/D	D/R	C/R				
47	B/C/D	D/R	C/D/R	C/D		R		
68	D/R	B/C/D/R	B/C/D	C/D	R			
100		C						
120								
150	C/R	C/D/R	C/D	D/R				
220	C/D	C/D/R	D/R	R				
330	C/D	C/D/R	D/R					
470	C/D/R	C/D/R						
680	D/R	R						
1000	R	R						
1500		M/R						



STANDARD RATINGS							
CAPACITANCE (μF)	CASE CODE	PART NUMBER	HEIGHT MAX. (mm)	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							
22	A	591D226(1)004A(2)(3)15H	1.5	0.9	6	1.200	0.22
22	B	591D226(1)004B(2)(3)15H	1.5	0.9	6	0.800	0.32
33	B	591D336(1)004B(2)(3)15H	1.5	1.3	6	0.800	0.32
47	B	591D476(1)004B(2)(3)15H	1.5	1.9	6	0.800	0.32
47	C	591D476(1)004C(2)(3)15H	1.5	1.9	6	0.200	0.71
68	B	591D686(1)004B(2)(3)15H	1.5	2.7	6	0.800	0.32
68	C	591D686(1)004C(2)(3)15H	1.5	2.7	6	0.180	0.75
68	D	591D686(1)004D(2)(3)15H	1.5	2.7	6	0.140	0.94
100	D	591D107(1)004D(2)(3)15H	1.5	4.0	8	0.130	0.98
100	R	591D107(1)004R(2)(3)15H	1.5	4.0	8	0.110	1.17
150	C	591D157(1)004C(2)(3)15H	1.5	6.0	8	0.150	0.82
150	R	591D157(1)004R(2)(3)15H	1.5	6.0	8	0.100	1.22
220	C	591D227(1)004C(2)(3)20H	2.0	8.8	8	0.075	1.21
220	D	591D227(1)004D(2)(3)15H	1.5	8.8	8	0.100	1.12
330	C	591D337(1)004C(2)(3)20H	2.0	13.2	8	0.070	1.25
330	D	591D337(1)004D(2)(3)20H	2.0	13.2	8	0.060	1.53
470	C	591D477(1)004C(2)(3)20H	2.0	18.8	8	0.070	1.25
470	D	591D477(1)004D(2)(3)20H	2.0	18.8	8	0.060	1.53
470	R	591D477(1)004R(2)(3)20H	2.0	18.8	10	0.045	1.97
680	D	591D687(1)004D(2)(3)20H	2.0	27.2	12	0.085	1.28
680	R	591D687(1)004R(2)(3)20H	2.0	27.2	12	0.045	1.97
1000	R	591D108(1)004R(2)(3)20H	2.0	40.0	14	0.050	1.87
6.3 V_{DC} AT + 85 °C; 4 V_{DC} AT + 125 °C							
10	A	591D106(1)6R3A(2)(3)15H	1.5	0.6	6	1.900	0.18
15	A	591D156(1)6R3A(2)(3)15H	1.5	0.9	6	1.300	0.21
15	B	591D156(1)6R3B(2)(3)15H	1.5	0.9	6	0.800	0.32
22	A	591D226(1)6R3A(2)(3)13H	1.3	1.4	6	0.800	0.26
22	B	591D226(1)6R3B(2)(3)15H	1.5	1.4	6	0.800	0.32
33	A	591D336(1)6R3A(2)(3)15H	1.5	2.1	6	1.000	0.24
33	B	591D336(1)6R3B(2)(3)15H	1.5	2.1	6	0.800	0.32
33	C	591D336(1)6R3C(2)(3)15H	1.5	2.1	6	0.200	0.71
47	B	591D476(1)6R3B(2)(3)15H	1.5	3.0	8	0.800	0.32
47	C	591D476(1)6R3C(2)(3)15H	1.5	3.0	6	0.200	0.71
47	D	591D476(1)6R3D(2)(3)15H	1.5	3.0	6	0.140	0.94
68	D	591D686(1)6R3D(2)(3)15H	1.5	4.3	6	0.130	0.98
68	R	591D686(1)6R3R(2)(3)15H	1.5	4.3	6	0.110	1.17
100	B	591D107(1)6R3B(2)(3)15H	1.5	6.3	8	0.500	0.40
100	C	591D107(1)6R3C(2)(3)15H	1.5	6.3	8	0.190	0.73
100	D	591D107(1)6R3D(2)(3)15H	1.5	6.3	8	0.150	0.91
100	R	591D107(1)6R3R(2)(3)15H	1.5	6.3	8	0.100	1.22
120	C	591D127(1)6R3C(2)(3)20H	2.0	7.2	8	0.100	1.05
150	C	591D157(1)6R3C(2)(3)20H	2.0	9.5	8	0.080	1.17
150	D	591D157(1)6R3D(2)(3)15H	1.5	9.5	8	0.120	1.02
150	R	591D157(1)6R3R(2)(3)15H	1.5	9.5	8	0.140	1.04
220	C	591D227(1)6R3C(2)(3)20H	2.0	13.9	8	0.075	1.21
220	D	591D227(1)6R3D(2)(3)20H	2.0	13.9	8	0.065	1.47
220	R	591D227(1)6R3R(2)(3)15H	1.5	13.9	8	0.150	1.00

Note

- Part number definitions:
 - Tolerance: For 10 % tolerance, specify "X9"; for 20 % tolerance, change to "X0"
 - Termination: For 100 % tin specify "2", for gold plated specify "4", for solder plated 60/40 specify "8"
 - Packaging code: For 7" reels specify "T", for 13" reels specify "W"



STANDARD RATINGS							
CAPACITANCE (μ F)	CASE CODE	PART NUMBER	HEIGHT MAX. (mm)	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							
330	C	591D337(1)6R3C(2)(3)20H	2.0	20.8	12	0.150	0.86
330	D	591D337(1)6R3D(2)(3)20H	2.0	20.8	8	0.060	1.53
330	R	591D337(1)6R3R(2)(3)20H	2.0	20.8	8	0.045	1.97
470	C	591D477X06R3C(2)(3)16H	1.6	29.6	14	0.080	1.12
470	C	591D477(1)6R3C(2)(3)20H	2.0	29.6	14	0.080	1.17
470	D	591D477(1)6R3D(2)(3)20H	2.0	29.6	10	0.085	1.28
470	R	591D477(1)6R3R(2)(3)20H	2.0	29.6	10	0.045	1.97
680	R	591D687(1)6R3R(2)(3)16H	1.6	42.8	10	0.060	1.60
680	R	591D687(1)6R3R(2)(3)20H	2.0	42.8	10	0.060	1.71
1000	R	591D108(1)6R3R(2)(3)20H	2.0	63.0	29	0.075	1.53
1500	M	591D158X06R3M(2)(3)20H	2.0	95.0	50	0.060	1.87
1500	R	591D158X06R3R(2)(3)20H	2.0	95.0	50	0.060	1.71
10 V_{DC} AT + 85 °C; 7 V_{DC} AT + 125 °C							
4.7	A	591D475(1)010A(2)(3)15H	1.5	0.5	6	4.000	0.12
6.8	A	591D685(1)010A(2)(3)15H	1.5	0.7	6	4.000	0.12
10	A	591D106(1)010A(2)(3)15H	1.5	1.0	6	1.300	0.21
10	B	591D106(1)010B(2)(3)15H	1.5	1.0	6	0.850	0.31
15	B	591D156(1)010B(2)(3)15H	1.5	1.5	6	0.800	0.32
22	A	591D226(1)010A(2)(3)13H	1.3	2.2	6	0.800	0.27
22	A	591D226(1)010A(2)(3)15H	1.5	2.2	6	0.900	0.26
22	B	591D226(1)010B(2)(3)15H	1.5	2.2	6	0.800	0.32
22	C	591D226(1)010C(2)(3)15H	1.5	2.2	6	0.200	0.71
33	C	591D336(1)010C(2)(3)15H	1.5	3.3	6	0.200	0.71
33	D	591D336(1)010D(2)(3)15H	1.5	3.3	6	0.140	0.94
47	D	591D476(1)010D(2)(3)15H	1.5	4.7	6	0.140	0.94
47	R	591D476(1)010R(2)(3)15H	1.5	4.7	6	0.120	1.12
68	C	591D686(1)010C(2)(3)15H	1.5	6.8	6	0.190	0.73
68	D	591D686(1)010D(2)(3)15H	1.5	6.8	6	0.130	0.98
68	R	591D686(1)010R(2)(3)15H	1.5	6.8	6	0.110	1.17
100	B	591D107(1)010B(2)(3)20H	2.0	10.0	14	0.250	0.57
100	C	591D107(1)010C(2)(3)20H	2.0	10.0	8	0.085	1.14
100	D	591D107(1)010D(2)(3)15H	1.5	10.0	8	0.130	0.98
150	C	591D157(1)010C(2)(3)15H	1.5	15.0	8	0.083	1.10
150	C	591D157(1)010C(2)(3)20H	2.0	15.0	8	0.080	1.17
150	D	591D157(1)010D(2)(3)15H	1.5	15.0	8	0.120	1.02
150	D	591D157(1)010D(2)(3)20H	2.0	15.0	8	0.075	1.37
220	D	591D227(1)010D(2)(3)20H	2.0	22.0	8	0.065	1.47
220	R	591D227(1)010R(2)(3)20H	2.0	22.0	8	0.055	1.78
330	D	591D337(1)010D(2)(3)20H	2.0	33.0	8	0.060	1.53
330	R	591D337(1)010R(2)(3)18H	1.8	33.0	8	0.050	1.81
330	R	591D337(1)010R(2)(3)20H	2.0	33.0	8	0.050	1.87

Note

- Part number definitions:
 - Tolerance: For 10 % tolerance, specify "X9"; for 20 % tolerance, change to "X0"
 - Termination: For 100 % tin specify "2", for gold plated specify "4", for solder plated 60/40 specify "8"
 - Packaging code: For 7" reels specify "T", for 13" reels specify "W"



STANDARD RATINGS							
CAPACITANCE (μ F)	CASE CODE	PART NUMBER	HEIGHT MAX. (mm)	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							
4.7	A	591D475(1)016A(2)(3)15H	1.5	0.8	6	1.750	0.19
6.8	A	591D685(1)016A(2)(3)15H	1.5	1.1	6	1.750	0.19
6.8	B	591D685(1)016B(2)(3)15H	1.5	1.1	6	0.900	0.30
10	B	591D106(1)016B(2)(3)15H	1.5	1.6	6	0.800	0.32
10	C	591D106(1)016C(2)(3)15H	1.5	1.6	6	0.500	0.45
15	B	591D156(1)016B(2)(3)15H	1.5	2.4	6	0.700	0.34
15	D	591D156(1)016D(2)(3)15H	1.5	2.4	6	0.250	0.71
22	C	591D226(1)016C(2)(3)15H	1.5	3.5	6	0.240	0.65
22	D	591D226(1)016D(2)(3)15H	1.5	3.5	6	0.180	0.83
33	C	591D336(1)016C(2)(3)15H	1.5	5.3	6	0.180	0.75
33	D	591D336(1)016D(2)(3)15H	1.5	5.3	6	0.170	0.86
33	R	591D336(1)016R(2)(3)15H	1.5	5.3	6	0.140	1.04
47	C	591D476(1)016C(2)(3)20H	2.0	7.5	6	0.180	0.78
47	R	591D476(1)016R(2)(3)15H	1.5	7.5	6	0.130	1.07
68	C	591D686(1)016C(2)(3)20H	2.0	10.9	6	0.100	1.05
68	D	591D686(1)016D(2)(3)20H	2.0	10.9	6	0.080	1.32
100	C	591D107(1)016C(2)(3)20H	2.0	16.0	8	0.100	1.05
100	D	591D107(1)016D(2)(3)15H	1.5	16.0	8	0.100	1.12
100	D	591D107(1)016D(2)(3)20H	2.0	16.0	8	0.075	1.37
150	D	591D157(1)016D(2)(3)20H	2.0	24.0	8	0.080	1.32
150	R	591D157(1)016R(2)(3)20H	2.0	24.0	8	0.060	1.71
220	R	591D227(1)016R(2)(3)20H	2.0	35.2	10	0.075	1.53
20 V_{DC} AT + 85 °C; 13 V_{DC} AT + 125 °C							
2.2	A	591D225(1)020A(2)(3)15H	1.5	0.5	6	4.000	0.12
4.7	A	591D475(1)020A(2)(3)15H	1.5	0.9	6	1.900	0.18
4.7	B	591D475(1)020B(2)(3)15H	1.5	0.9	6	1.600	0.22
6.8	B	591D685(1)020B(2)(3)15H	1.5	1.4	6	1.600	0.22
6.8	C	591D685(1)020C(2)(3)15H	1.5	1.4	6	0.400	0.50
10	B	591D106(1)020B(2)(3)15H	1.5	2.0	6	1.500	0.23
10	D	591D106(1)020D(2)(3)15H	1.5	2.0	6	0.270	0.68
15	C	591D156(1)020C(2)(3)15H	1.5	3.0	6	0.300	0.58
22	D	591D226(1)020D(2)(3)15H	1.5	4.4	6	0.200	0.79
22	R	591D226(1)020R(2)(3)15H	1.5	4.4	6	0.140	1.04
33	R	591D336(1)020R(2)(3)15H	1.5	6.6	6	0.140	1.04
100	R	591D107(1)020R(2)(3)20H	2.0	20.0	10	0.100	0.94
25 V_{DC} AT + 85 °C; 17 V_{DC} AT + 125 °C							
2.2	A	591D225(1)025A(2)(3)15H	1.5	0.6	6	5.000	0.11
2.2	B	591D225(1)025B(2)(3)15H	1.5	0.6	6	3.800	0.15
3.3	B	591D335(1)025B(2)(3)15H	1.5	0.8	6	3.700	0.15
3.3	C	591D335(1)025C(2)(3)15H	1.5	0.8	6	1.000	0.32
4.7	C	591D475(1)025C(2)(3)15H	1.5	1.2	6	0.800	0.35
6.8	C	591D685(1)025C(2)(3)15H	1.5	1.7	6	0.750	0.37
6.8	D	591D685(1)025D(2)(3)15H	1.5	1.7	6	0.650	0.44
10	B	591D106X0025B(2)(3)15H	1.5	2.5	6	1.000	0.28
10	D	591D106(1)025D(2)(3)15H	1.5	2.5	6	0.600	0.46
10	R	591D106(1)025R(2)(3)15H	1.5	2.5	6	0.240	0.79
15	R	591D156(1)025R(2)(3)15H	1.5	3.8	6	0.200	0.87
33	C	591D336(1)025C(2)(3)16H	1.6	8.3	6	0.250	0.63
33	C	591D336(1)025C(2)(3)20H	2.0	8.3	6	0.250	0.66
68	R	591D686(1)025R(2)(3)20H	2.0	17.0	8	0.175	1.00

Note

- Part number definitions:

- Tolerance: For 10 % tolerance, specify "X9"; for 20 % tolerance, change to "X0"
- Termination: For 100 % tin specify "2", for gold plated specify "4", for solder plated 60/40 specify "8"
- Packaging code: For 7" reels specify "T", for 13" reels specify "W"



STANDARD RATINGS							
CAPACITANCE (μ F)	CASE CODE	PART NUMBER	HEIGHT MAX. (mm)	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							
1.0	A	591D105(1)035A(2)(3)15H	1.5	0.5	4	5.000	0.11
1.0	B	591D105(1)035B(2)(3)15H	1.5	0.5	4	4.400	0.13
1.5	B	591D155(1)035B(2)(3)15H	1.5	0.5	4	3.800	0.15
2.2	B	591D225(1)035B(2)(3)15H	1.5	0.8	6	4.000	0.14
2.2	C	591D225(1)035C(2)(3)15H	1.5	0.8	6	2.000	0.22
3.3	B	591D335(1)035B(2)(3)15H	1.5	1.2	6	3.500	0.15
3.3	C	591D335(1)035C(2)(3)15H	1.5	1.2	6	1.900	0.23
3.3	D	591D335(1)035D(2)(3)15H	1.5	1.2	6	1.500	0.29
4.7	B	591D475(1)035B(2)(3)15H	1.5	1.6	6	0.800	0.32
6.8	D	591D685(1)035D(2)(3)15H	1.5	2.4	6	0.950	0.36
6.8	R	591D685(1)035R(2)(3)15H	1.5	2.4	6	0.750	0.45
10	R	591D106(1)035R(2)(3)15H	1.5	3.5	6	0.600	0.50
50 V_{DC} AT + 85 °C; 33 V_{DC} AT + 125 °C							
1.0	B	591D155(1)050B(2)(3)15H	1.5	0.8	6	6.500	0.11
4.7	C	591D475(1)050C(2)(3)20H	2.0	23.5	6	6.000	0.14

Note

- Part number definitions:
 - Tolerance: For 10 % tolerance, specify "X9"; for 20 % tolerance, change to "X0"
 - Termination: For 100 % tin specify "2", for gold plated specify "4", for solder plated 60/40 specify "8"
 - Packaging code: For 7" reels specify "T", for 13" reels specify "W"

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

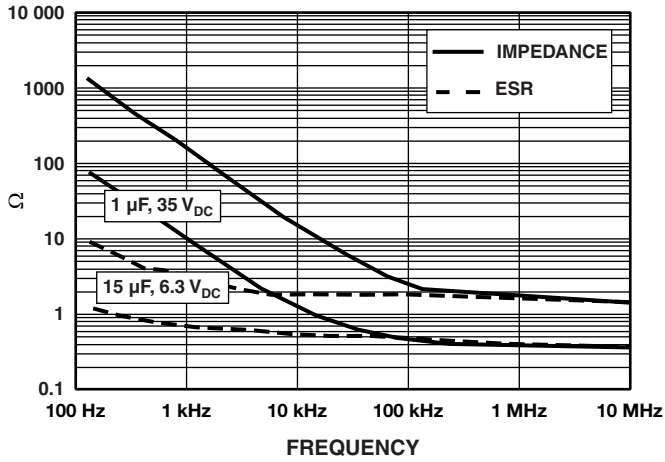


CASE CODE/PART NUMBER X-REF	
OLD	NEW
A2_	A2_15H
B2_	B2_15H
C2_	C2_15H
D2_	D2_15H
R2_	R2_15H
U2_	C2_20H
V2_	D2_20H
W2_	R2_20H

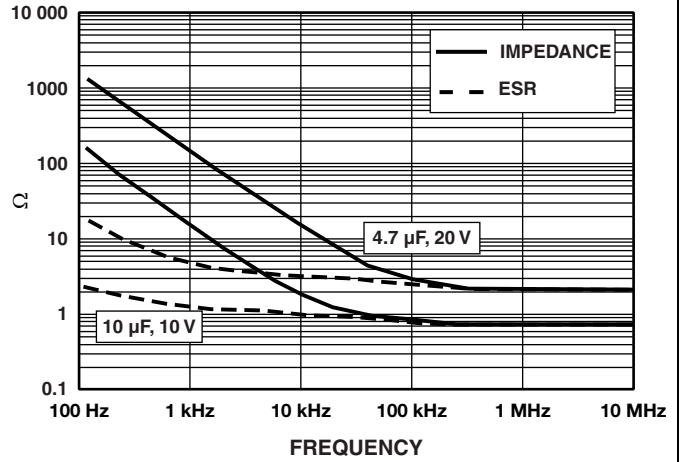


TYPICAL CURVES AT + 25 °C, IMPEDANCE AND ESR VS. FREQUENCY

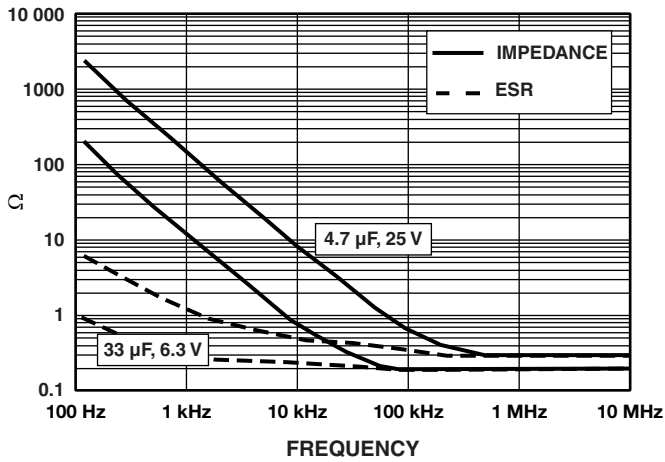
“A” CASE



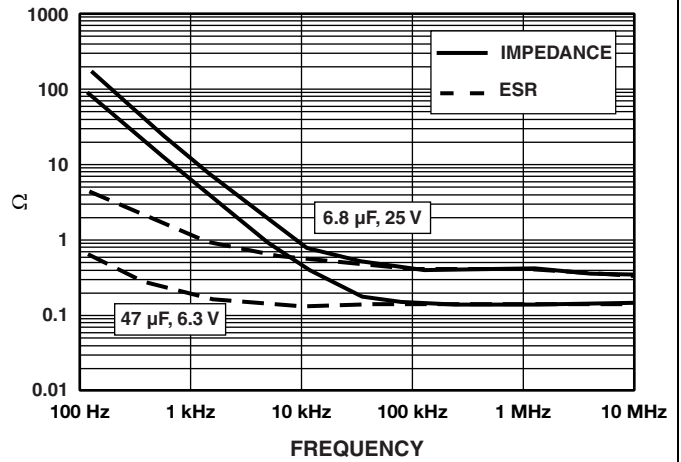
“B” CASE



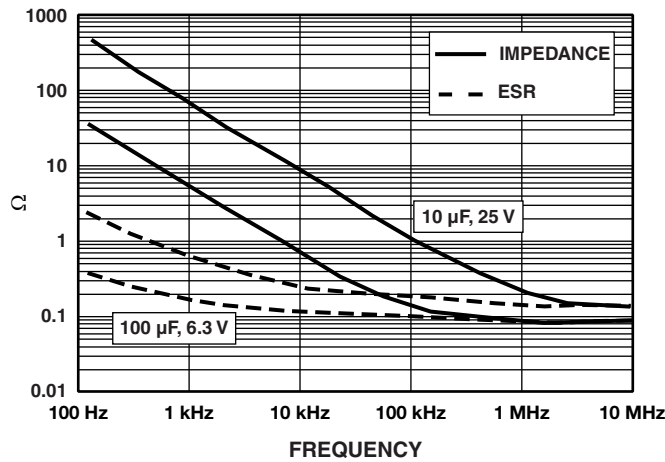
“C” CASE



“D” CASE



“R” CASE





POWER DISSIPATION		
CASE CODE	HEIGHT	MAXIMUM PERMISSIBLE POWER DISSIPATION AT + 25 °C (W) IN FREE AIR
A	13H	0.055
A	15H	0.060
B	15H	0.080
B	20H	0.085
C	15H	0.100
C	16H	0.100
C	20H	0.110
D	15H	0.125
D	20H	0.140
M	20H	0.175
R	15H	0.150
R	16H	0.155
R	18H	0.165
R	20H	0.175

STANDARD PACKAGING QUANTITY			
CASE CODE	HEIGHT	UNITS PER REEL	
		7" REEL	13" REEL
A	Any	2500	10 000
B	Any	2000	8000
C	Any	1000	4000
D	Any	1000	4000
M	20H	1000	2500
R	15H	1000	4000
R	16H; 18H; 20H	1000	2500

PRODUCT INFORMATION	
Conformal Coated Guide • Recommended Pad Layouts • Carrier Tape Information • Reflow Profiles	www.vishay.com/doc?40150
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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Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

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«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: ocean@oceanchips.ru

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А