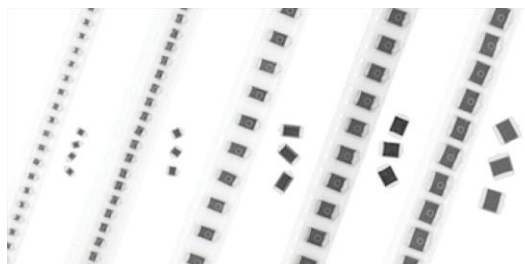


Solid Tantalum Chip Capacitors TANTAMOUNT[®], Low Profile, Low ESR, Conformal Coated, Maximum CV



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

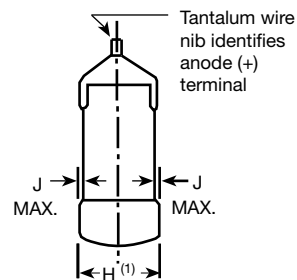
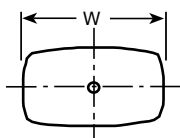
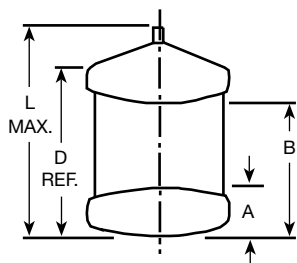
Voltage Rating: 4 V_{DC} to 50 V_{DC}

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						B/C	B/C/D	
4.7			A	A	A/B	C	B	C
6.8			A	A/B	B/C	C/D	D/R	
10		A	A/B	B/C	B/D	B/D/R	R	
15		A/B	B	B/D	C	R		
22	A/B	A/B	A/B/C	C/D	D/R			
33	B	A/B/C	C/D	C/D/R	R	C		
47	B/C	B/C/D	D/R	C/R				
68	B/C/D	D/R	C/D/R	C/D		R		
100	D/R	B/C/D/R	B/C/D	C/D	R			
120		C						
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 (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)
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:
 - (1) Tolerance: For 10 % tolerance, specify "X9"; for 20 % tolerance, change to "X0"
 - (2) Termination: For 100 % tin specify "2", for gold plated specify "4", for solder plated 60/40 specify "8"
 - (3) 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:
 - (1) Tolerance: For 10 % tolerance, specify "X9"; for 20 % tolerance, change to "X0"
 - (2) Termination: For 100 % tin specify "2", for gold plated specify "4", for solder plated 60/40 specify "8"
 - (3) 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:

(1) Tolerance: For 10 % tolerance, specify "X9"; for 20 % tolerance, change to "X0"

(2) Termination: For 100 % tin specify "2", for gold plated specify "4", for solder plated 60/40 specify "8"

(3) 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:
 - (1) Tolerance: For 10 % tolerance, specify "X9"; for 20 % tolerance, change to "X0"
 - (2) Termination: For 100 % tin specify "2", for gold plated specify "4", for solder plated 60/40 specify "8"
 - (3) Packaging code: For 7" reels specify "T", for 13" reels specify "W"

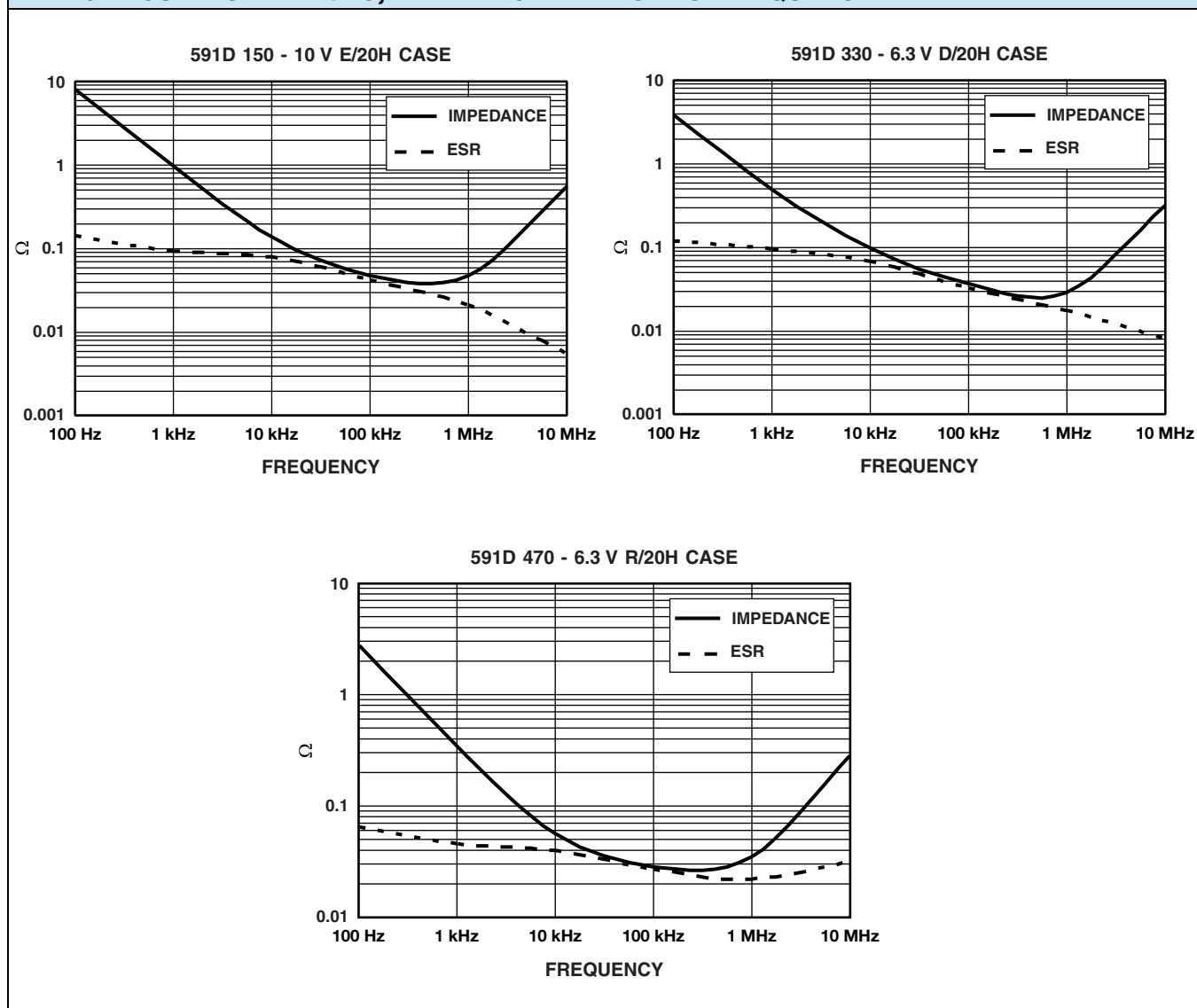
RECOMMENDED VOLTAGE DERATING GUIDELINES (for temperatures below + 85 °C)	
STANDARD CONDITIONS. FOR EXAMPLE: OUTPUT FILTERS	
Capacitor Voltage Rating	Operating Voltage
4.0	2.5
6.3	3.6
10	6.0
16	10
20	12
25	15
35	24
50	28
SEVERE CONDITIONS. FOR EXAMPLE: INPUT FILTERS	
Capacitor Voltage Rating	Operating Voltage
4.0	2.5
6.3	3.3
10	5.0
16	8.0
20	10
25	12
35	15
50	24

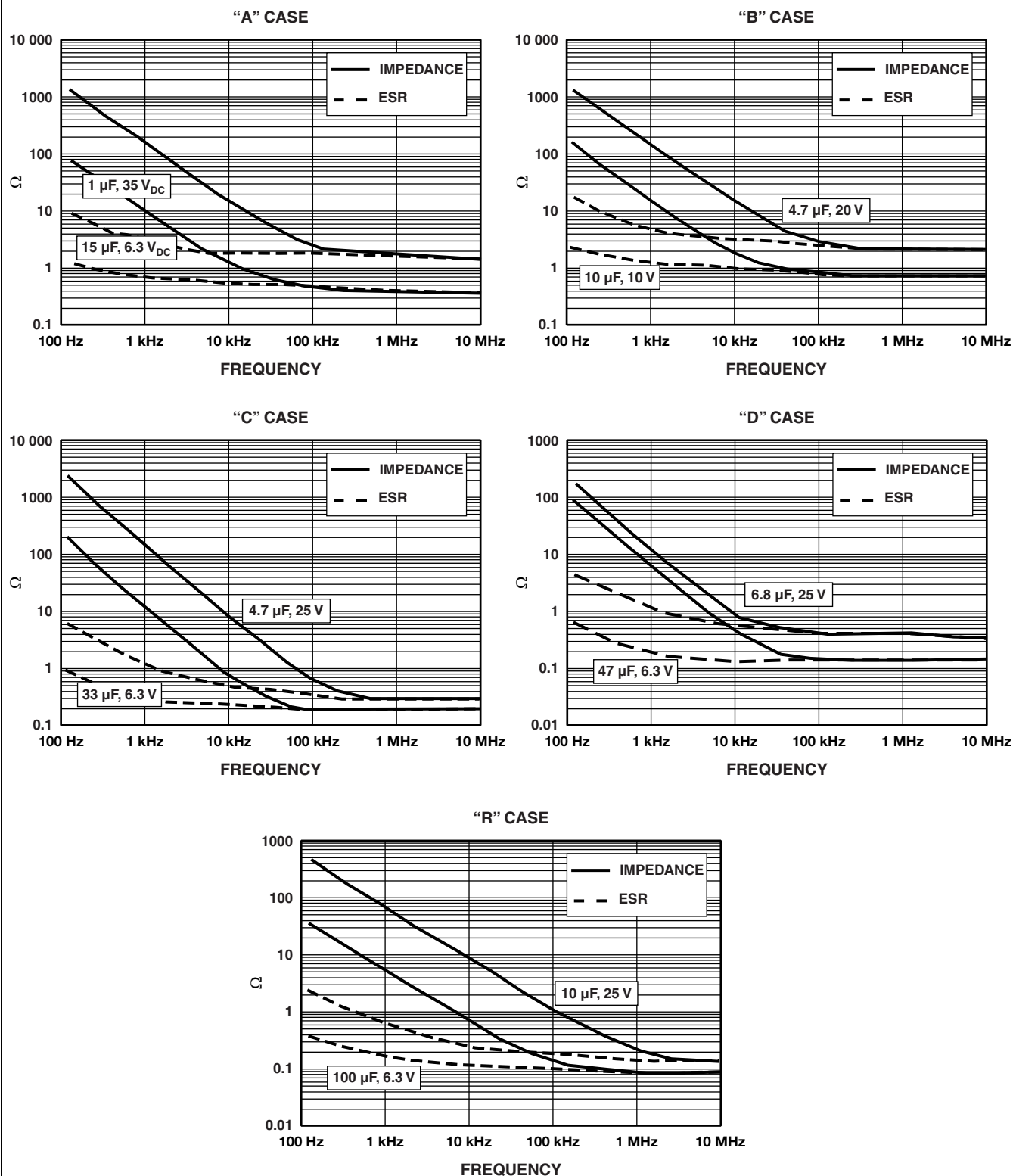


CASE CODE/PART NUMBER X-REF

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



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


**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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Material Category Policy

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Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as Halogen-Free follow Halogen-Free requirements as per JEDEC JS709A standards. Please note that some Vishay documentation may still make reference to the IEC 61249-2-21 definition. We confirm that all the products identified as being compliant to IEC 61249-2-21 conform to JEDEC JS709A standards.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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