

Type 211D Wet Tantalum Capacitor Array with Tantalum Cased Tantalum Internal Components for - 55 °C to + 125 °C Operation



FEATURES

Vishay 211D series was designed as an upgrade to the older and mature 200D and 202D Tantapak® Capacitor assemblies. The 211D is constructed using tantalum capacitors, similar to the Vishay 135D series or the Mil-PRF-39006/22 or /25 styles. This enables the 211D to exhibit the improved performance characteristics of the tantalum-cased capacitors. Capable of withstanding 3.0 V reverse. The 211D has applicability in new designs when used for energy storage, filtering and similar functions.

PERFORMANCE CHARACTERISTICS

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

Capacitance Tolerance: at 120 Hz, + 25 °C, ± 20 %

Standard: ± 10 % available

DC Leakage Current (DCL maximum):

At + 25 °C: Leakage current shall not exceed the values listed in the Standard Ratings Tables.

Life Test: Capacitors shall withstand 2000 h at a temperature of + 85 °C or + 125 °C at the rated DC working voltage. Following the life test:

1. DCL shall not exceed the original requirement
2. ESR shall not exceed the original requirement
3. Capacitance shall not change more than ± 10 %

ORDERING INFORMATION

211D	228	X	030	A5
MODEL	CAPACITANCE	CAPACITANCE TOLERANCE	DC VOLTAGE RATING at + 85 °C	CASE CODE
	This is expressed in picofarads. The first two digits are significant figures. The third is the number of zeros.	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 dimensional configurations

DIMENSIONS

SERIES "A" CASE		SERIES "B" CASE		CASE CODE	H CASE HEIGHT
				A1	1.062 [26.97]
				A2	1.375 [34.93]
				A3	1.625 [41.28]
				A4	2.000 [50.60]
				A5	2.500 [63.50]
				B1	1.500 [38.10]
				B2	1.875 [47.63]
				B3	2.250 [57.15]
				B4	2.625 [66.68]
				B5	3.000 [76.20]
				B6	3.375 [85.73]
				B7	3.750 [95.25]

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BULLETIN RATINGS TABLE							
CAPACITANCE (μF)	CASE CODE	PART NUMBER	MAXIMUM ESR at + 25 °C (Ω)	MAXIMUM IMPEDANCE at - 55 °C (Ω)	DCL		MAXIMUM RMS RIPPLE 40 kHz (A)
					+ 25 °C (μA)	+ 85 °C/+ 125 °C (μA)	
10 WVDC at + 85 °C ... 6.7 WVDC at + 125 °C							
4500	B1	211D458X010B1	0.150	3.8	24	96	11
7500	B3	211D758X010B3	0.090	2.3	40	160	19
10 000	B5	211D109X010B5	0.063	1.64	56	224	26
14 000	B7	211D149X010B7	0.049	1.28	72	288	34
30 WVDC at + 85 °C ... 20 WVDC at + 125 °C							
1200	A2	211D128X030A2	0.31	3.9	21	63	7.8
1300	A4	211D138X030A4	0.42	6.0	18	96	5.8
1800	A5	211D188X030A5	0.45	6.3	32	128	4.8
1800	B1	211D188X930B1	0.23	4.2	48	192	9.4
50 WVDC at + 85 °C ... 35 WVDC at + 125 °C							
700	A4	211D707X050A4	0.23	8.2	24	144	5.8
1000	A5	211D108X050A5	0.51	7.3	27	108	4.6
3300	B5	211D338X050B5	0.150	2.2	90	360	15
5200	B6	211D528X050B6	0.096	1.38	144	576	24
5900	B7	211D598X050B7	0.085	1.22	162	648	27
75 WVDC at + 85 °C ... 50 WVDC at + 125 °C							
120	A2	211D127X075A2	0.99	20	6	36	3.0
200	A4	211D207X075A4	0.67	15.0	6	60	2.4
220	A5	211D227X075A5	0.49	10.0	12	72	6.0
400	A3	211D407X075A3	0.50	13.0	20	120	4.0
480	A4	211D487X075A4	0.41	10.5	24	144	4.8
660	A5	211D667X075A5	0.60	8.0	30	120	4.3
880	B2	211D887X075B2	0.180	3.6	72	288	12
1100	B3	211D118X075B3	0.150	2.9	90	360	15
4000	B7	211D408X075B7	0.100	1.33	180	720	26
100 WVDC at + 85 °C ... 70 WVDC at + 125 °C							
540	A5	211D547X0100A5	0.25	5.7	70	336	15
1200	B3	211D128X0100B3	0.28	3.0	120	480	16
1600	B7	211D168X0100B7	0.085	1.66	162	648	26
125 WVDC at + 85 °C ... 80 WVDC at + 125 °C							
380	A5	211D387X0125A5	0.25	6.4	70	336	13
1100	B5	211D118X0125B5	0.20	2.3	168	672	21
1400	B7	211D148X0125B7	0.160	1.78	216	864	27
150 WVDC at + 85 °C ... 100 WVDC at + 125 °C							
70	A2	211D706X0150A2	1.90	45	4	40	2.9
550	B3	211D118X0150B3	0.32	4.8	50	200	7

Note

- Other ratings are available. Contact factory with your specific requirements.

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