



Capacitance Range:	200uF to 6600uF
Voltage Range:	25 to 125V
Temperature Range:	-55°C to 125 °C
Tolerance Range:	10%, 20%

Technical drawing of a mechanical part showing three views: front, top, and side. The front view shows a rectangular block with a 45-degree chamfer on the top left corner and a circular hole on the right side. The top view shows the same block from above, with a circular hole on the left side. The side view shows the block from the side, with a circular hole on the right side. Dimensions are provided in inches and millimeters for each view.

Front View Dimensions:

- Overall width: 31.8 (1.253)
- Overall height: 9.00 (0.355)
- Top left corner radius: R 0.900 (0.035) X4
- Chamfer angle: 45°
- Distance from left edge to hole center: 5.50 (0.215)
- Distance from hole center to right edge: 5.10 (0.200)
- Distance from top edge to hole center: 11.8 (0.466)
- Distance from hole center to right edge (top): 5.10 (0.200)
- Distance from hole center to right edge (bottom): 5.10 (0.200)
- Distance from top edge to hole center (right): 2.00 (0.077)
- Distance from hole center to right edge (right): 0.80 (0.315)
- Distance from hole center to right edge (bottom): 6.30 (0.247)
- Distance from hole center to right edge (right): 0.80 (0.315)

Top View Dimensions:

- Overall width: 31.8 (1.253)
- Overall height: 10.2 (0.402)
- Distance from left edge to hole center: 5.50 (0.215)
- Distance from hole center to right edge: 13.6 (0.536)
- Distance from left edge to hole center (top): 7.70 (0.301)
- Distance from hole center to right edge (top): 8.60 (0.338)
- Distance from left edge to hole center (bottom): 8.80 (0.348)
- Distance from hole center to right edge (bottom): 8.60 (0.338)

Side View Dimensions:

- Overall width: 11.8 (0.466)
- Overall height: 11.5 (0.452)
- Top left corner radius: R 0.90 (0.035)
- Top right corner radius: R 0.90 (0.035)

Other Dimensions:

- Distance from left edge to hole center (front): 5.2 (0.204)
- Distance from hole center to right edge (front): 8.60 (0.338)
- Distance from left edge to hole center (top): 0.00 (0.000)
- Distance from hole center to right edge (top): 0.30 (0.010)
- Distance from left edge to hole center (bottom): 0.90 (0.035)
- Distance from hole center to right edge (bottom): 3.20 (0.125)
- Distance from left edge to hole center (right): 3.90 (0.155)
- Distance from hole center to right edge (right): 5.30 (0.208)
- Distance from left edge to hole center (left): R 1.30 (0.050) T THRU X2
- Distance from hole center to right edge (left): 38.9 (1.530)
- Distance from hole center to right edge (right): 42.4 (1.670)
- Distance from hole center to right edge (bottom): 23.8 (0.935)
- Distance from hole center to right edge (top): 3.90 (0.153)
- Distance from hole center to right edge (right): Ø 2.90 (0.115) T THRU X2

Voltage (DC)								
Rated Voltage: (Ur)	85°C	25	30	50	60	75	100	125
Derated Voltage: (Uc)	125°C	15	20	30	40	50	65	85
Surge Voltage: (Us)	85°C	28.8	34.5	57.5	69	86.3	115	144

HOW TO ORDER

AVX PART NUMBER:

TW	2E	227	*	050	C	B	@	Z	0	S	++
Type	Case Size	Capacitance Code	Capacitance Tolerance	Voltage	C = N/A	Packaging B = Bulk	Qualification S = COTS-PLus	Established Reliability Z = Non-ER	Reliability Grade 0 = Standard	Termination Finish S = Silver Plating	Special Code 00 = Standard
		pF code: 1st two digits represent significant figures 3rd digit represents multiplier (number of zeros to follow)									

Not RoHS Compliant

SnPb termination option is not RoHS compliant.

RIPPLE CURRENT MULTIPLIERS vs. Frequency, temperature and applied voltage^{1/2/}

Frequency of Applied Ripple Current		120Hz				800Hz				1kHz			
Ambient Still Air Temperature (°C)		≤55	85	105	125	≤55	85	105	125	≤55	85	105	125
% of	100%	0.60	0.39	–	–	0.71	0.43	–	–	0.72	0.45	–	–
	90%	0.60	0.46	–	–	0.71	0.55	–	–	0.72	0.55	–	–
	80%	0.60	0.52	0.35	–	0.71	0.62	0.42	–	0.72	0.62	0.42	–
	70%	0.60	0.58	0.44	–	0.71	0.69	0.52	–	0.72	0.70	0.52	–
Voltage		66-2/3%	0.60	0.60	0.46	0.71	0.71	0.55	0.32	0.72	0.72	0.55	0.32

Frequency of Applied Ripple Current		10kHz				40kHz				100kHz			
Ambient Still Air Temperature (°C)		≤55	85	105	125	≤55	85	105	125	≤55	85	105	125
% of	100%	0.88	0.55	–	–	1.00	0.63	–	–	1.10	0.69	–	–
	90%	0.88	0.67	–	–	1.00	0.77	–	–	1.10	0.85	–	–
	80%	0.88	0.76	0.52	–	1.00	0.87	0.59	–	1.10	0.96	0.65	–
	70%	0.88	0.85	0.64	–	1.00	0.97	0.73	–	1.10	1.07	0.80	–
Voltage		66-2/3%	0.88	0.88	0.68	1.00	1.00	0.77	0.45	1.10	1.10	0.85	0.50

1/ At 125°C the rated voltage of the capacitors decreases to 66 2/3 of the 85°C rated voltage.

2/ The peak of the applied ac ripple voltage plus the applied dc voltage must not exceed the dc voltage rating of the capacitors.

RATINGS & PART NUMBER REFERENCE

AVX Part Number	Cap (uF)	DC Rated Voltage (V)	ESR Max (ohms)	DC Leakage Max (uA)		Max Impedance (Ohms)	Maximum Capacitance Change* (%)			Max AC Ripple* (mA rms)
	25°C at 120Hz	85°C	120Hz	+25°C	+85 and 125°C	-55°C at 120 Hz	-55°C	+85°C	125°C	85°C at 40kHz
TW2D248*025CB@Z0S++	2400	25	0.33	10	40	3.50	-70	12	18	5200
TW3D368*025CB@Z0S++	3600	25	0.22	15	60	2.33	-70	12	18	7800
TW2E368*025CB@Z0S++	3600	25	0.25	12	50	3.50	-75	12	20	6200
TW2E448*025CB@Z0S++	4400	25	0.25	20	160	5.00	-90	30	50	6400
TW3E548*025CB@Z0S++	5400	25	0.17	18	75	2.33	-75	12	20	9300
TW3E668*025CB@Z0S++	6600	25	0.17	30	240	3.33	-90	30	50	9600
TW2D208*030CB@Z0S++	2000	30	0.35	14	50	3.50	-70	10	18	5000
TW3D308*030CB@Z0S++	3000	30	0.23	21	75	2.33	-70	10	18	7500
TW2E308*030CB@Z0S++	3000	30	0.30	24	70	3.00	-72	10	20	6000
TW3E458*030CB@Z0S++	4500	30	0.20	36	105	2.00	-72	10	20	9000
TW2D947*050CB@Z0S++	940	50	0.38	6	50	5.00	-50	8	15	4200
TW2E148*050CB@Z0S++	1360	50	0.35	10	80	4.00	-58	10	20	5500
TW3D148*050CB@Z0S++	1410	50	0.25	9	75	3.33	-50	8	15	6300
TW3E208*050CB@Z0S++	2040	50	0.23	15	120	2.67	-58	10	20	8250
TW2E308*050CB@Z0S++	3000	50	0.50	38	200	7.50	-90	25	35	6000
TW3E458*050CB@Z0S++	4500	50	0.33	57	300	5.00	-90	25	35	9000
TW2D787*060CB@Z0S++	780	60	0.45	6	50	7.50	-60	8	15	4200
TW2E118*060CB@Z0S++	1120	60	0.40	10	80	5.00	-58	8	15	5500
TW3D128*060CB@Z0S++	1170	60	0.30	9	75	5.00	-60	8	15	6300
TW3E178*060CB@Z0S++	1680	60	0.27	15	120	3.33	-58	8	15	8250
TW2E208*060CB@Z0S++	2000	60	0.50	24	180	10.00	-90	30	50	6400
TW3E308*060CB@Z0S++	3000	60	0.33	36	270	6.67	-90	30	50	9600
TW2D667*075CB@Z0S++	660	75	0.50	6	60	6.00	-45	6	10	4200
TW2E947*075CB@Z0S++	940	75	0.45	10	100	6.00	-55	6	10	5500
TW3D997*075CB@Z0S++	990	75	0.33	9	90	4.00	-45	6	10	6300
TW3E148*075CB@Z0S++	1410	75	0.30	15	150	4.00	-55	6	10	8250
TW2D307*100CB@Z0S++	300	100	0.80	6	50	11.00	-35	6	12	4200
TW2E447*100CB@Z0S++	440	100	0.60	10	100	7.50	-40	6	12	5500
TW3D457*100CB@Z0S++	450	100	0.53	9	75	7.33	-35	6	12	6300
TW3E667*100CB@Z0S++	660	100	0.40	15	150	5.00	-40	6	12	8250
TW2D207*125CB@Z0S++	200	125	0.90	6	50	17.50	-35	5	12	4200
TW3D307*125CB@Z0S++	300	125	0.60	9	75	11.67	-35	5	12	6300
TW2E307*125CB@Z0S++	300	125	0.80	10	100	10.00	-35	6	12	5500
TW3E457*125CB@Z0S++	450	125	0.53	15	150	6.67	-35	6	12	8250

*For reference only, contact factory for more details



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