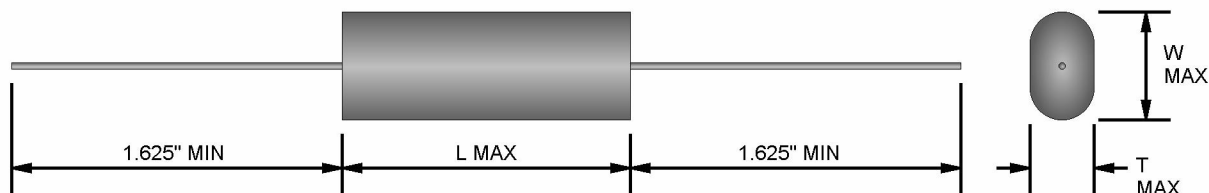
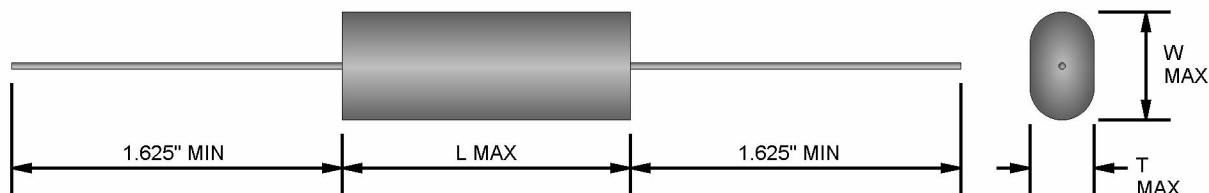


400VDC/220VAC											
CAP (MFD)	T MAX	W MAX	L MAX	LEAD AWG	I _{RMS} (A)				I _{PEAK} (A)	dv/dt MAX (V/μs)	ESR MAX @ 100kHz (mΩ)
					25°C	40°C	65°C	90°C			
0.10	0.220" (5.6mm)	0.380" (9.7mm)	1.063" (27.0mm)	20	1.0	1.0	0.8	0.6	1.7	17.0	85.0
0.15	0.260" (6.6mm)	0.420" (10.7mm)	1.063" (27.0mm)	20	1.5	1.3	1.1	0.9	2.5	16.7	54.0
0.22	0.240" (6.1mm)	0.470" (11.9mm)	1.313" (33.4mm)	20	2.0	1.6	1.3	1.0	2.8	12.7	42.0
0.33	0.280" (7.1mm)	0.520" (13.2mm)	1.313" (33.4mm)	20	3.0	2.6	2.2	1.8	4.2	12.7	27.0
0.47	0.280" (7.1mm)	0.530" (13.5mm)	1.313" (33.4mm)	20	4.0	3.4	2.8	2.4	5.7	12.1	21.0
0.68	0.300" (7.6mm)	0.590" (15.0mm)	1.313" (33.4mm)	20	6.0	5.1	4.2	3.4	8.5	12.5	13.0
1.0	0.390" (9.9mm)	0.650" (16.5mm)	1.313" (33.4mm)	20	9.0	8.0	6.0	4.0	12.8	12.8	11.0
1.5	0.480" (12.2mm)	0.750" (19.1mm)	1.313" (33.4mm)	20	10.0	8.0	6.0	4.6	14.1	9.4	9.0
2.2	0.560" (14.2mm)	0.890" (22.6mm)	1.313" (33.4mm)	20	11.0	9.0	7.0	6.0	19.3	8.8	8.0
3.3	0.690" (17.5mm)	0.990" (25.1mm)	1.313" (33.4mm)	20	15.0	12.0	9.0	7.0	29.0	8.8	7.0
4.7	0.640" (16.3mm)	0.940" (23.9mm)	1.813" (46.1mm)	18	16.0	13.0	10.0	8.0	26.0	5.5	7.0
6.8	0.670" (17.0mm)	0.960" (24.4mm)	2.313" (58.8mm)	18	17.0	14.0	11.0	9.0	27.0	4.0	7.0
8.2	0.790" (20.1mm)	1.100" (27.9mm)	2.313" (58.8mm)	18	18.0	16.0	13.0	10.0	32.0	3.9	6.0
10	0.880" (22.4mm)	1.200" (30.5mm)	2.313" (58.8mm)	18	19.0	16.0	13.0	11.0	39.0	3.9	6.0
15*	1.050" (26.7mm)	1.400" (35.6mm)	2.313" (58.8mm)	18x2	20.0	17.0	14.0	11.0	59.0	3.9	5.0
20*	1.200" (30.5mm)	1.600" (40.6mm)	2.313" (58.8mm)	18x2	21.0	18.0	15.0	12.0	77.0	3.5	5.0



600VDC/240VAC												
CAP (MFD)	T MAX	W MAX	L MAX	LEAD AWG	I _{RMS} (A)				I _{PEAK} (A)	dv/dt MAX (V/μs)	ESR MAX @ 100kHz (mΩ)	
					25°C	40°C	65°C	90°C				
0.10	0.250" (6.4mm)	0.480" (12.2mm)	1.313" (33.4mm)	20	1.0	1.0	0.8	0.6	1.8	18.0	75.0	
0.15	0.300" (7.6mm)	0.540" (13.7mm)	1.313" (33.4mm)	20	1.5	1.3	1.1	0.9	2.6	17.3	40.0	
0.22	0.380" (9.7mm)	0.610" (15.5mm)	1.313" (33.4mm)	20	2.0	1.6	1.3	1.0	3.9	17.7	25.0	
0.33	0.460" (11.7mm)	0.710" (18.0mm)	1.313" (33.4mm)	20	3.0	2.6	2.2	1.8	5.8	17.5	20.0	
0.47	0.460" (11.7mm)	0.750" (19.1mm)	1.313" (33.4mm)	20	4.0	3.5	3.0	2.5	6.9	14.7	13.0	
0.68	0.550" (14.0mm)	0.850" (21.6mm)	1.313" (33.4mm)	20	6.0	5.4	4.8	4.0	10.0	14.7	10.0	
1.0	0.670" (17.0mm)	0.970" (24.6mm)	1.313" (33.4mm)	20	9.0	8.0	7.0	6.0	14.6	14.6	8.0	
1.5	0.780" (19.8mm)	1.080" (27.4mm)	1.313" (33.4mm)	20	11.0	10.0	8.5	7.0	17.0	11.3	7.0	
2.2	0.640" (16.3mm)	0.940" (23.9mm)	2.313" (58.8mm)	18	13.0	11.0	9.0	7.5	18.4	8.4	10.0	
3.3	0.830" (21.1mm)	1.150" (29.2mm)	2.313" (58.8mm)	18	15.0	13.0	10.0	8.0	22.0	6.7	10.0	
4.7	0.990" (25.1mm)	1.330" (33.8mm)	2.313" (58.8mm)	18	16.0	14.0	11.0	9.0	31.0	6.6	9.0	
6.8	1.240" (31.5mm)	1.560" (39.6mm)	2.313" (58.8mm)	18	17.0	15.0	13.0	10.0	44.0	6.5	9.0	
8.2	1.290" (32.8mm)	1.730" (43.9mm)	2.313" (58.8mm)	18	18.0	16.0	14.0	12.0	53.0	6.5	8.0	
10	1.460" (37.1mm)	1.880" (47.8mm)	2.313" (58.8mm)	18	19.0	17.0	15.0	13.0	65.0	6.5	7.0	
15*	1.750" (44.5mm)	2.250" (57.2mm)	2.313" (58.8mm)	18x2	20.0	18.0	15.0	12.0	95.0	6.0	6.0	
20*	2.100" (53.3mm)	2.550" (64.8mm)	2.313" (58.8mm)	18x2	21.0	19.0	16.0	13.0	128.0	6.0	5.0	



1000VDC/250VAC												
CAP (MFD)	T MAX	W MAX	L MAX	LEAD AWG	I _{RMS} (A)				I _{PEAK} (A)	dv/dt MAX (V/μs)	ESR MAX @ 100kHz (mΩ)	
					25°C	40°C	65°C	90°C				
0.10	0.250" (6.4mm)	0.480" (12.2mm)	1.313" (33.4mm)	20	1.3	1.1	1.0	0.7	1.8	18.0	65.0	
0.15	0.300" (7.6mm)	0.540" (13.7mm)	1.313" (33.4mm)	20	2.0	1.7	1.7	1.2	2.7	18.0	35.0	
0.22	0.380" (9.7mm)	0.610" (15.5mm)	1.313" (33.4mm)	20	3.0	2.5	2.5	1.8	4.0	17.7	20.0	
0.33	0.460" (11.7mm)	0.710" (18.0mm)	1.313" (33.4mm)	20	4.0	3.3	3.2	2.4	6.0	18.2	18.0	
0.47	0.510" (13.0mm)	0.825" (21.0mm)	1.313" (33.4mm)	20	4.5	3.8	3.5	2.6	8.5	18.1	13.0	
0.68	0.650" (16.5mm)	0.950" (24.1mm)	1.313" (33.4mm)	20	6.5	5.5	5.2	4.0	12.0	18.0	9.0	
1.0	0.795" (20.2mm)	1.100" (27.9mm)	1.313" (33.4mm)	20	10.0	9.0	8.0	6.0	18.0	18.0	7.0	
1.5	1.000" (25.4mm)	1.300" (33.0mm)	1.313" (33.4mm)	20	11.0	10.0	9.0	8.0	27.0	18.0	6.0	
2.2	0.800" (20.3mm)	1.100" (27.9mm)	2.313" (58.8mm)	18	13.0	11.0	9.5	8.0	19.0	8.5	5.0	
3.3	0.950" (24.1mm)	1.350" (34.3mm)	2.313" (58.8mm)	18	16.0	14.0	11.0	9.0	28.0	8.5	9.0	
4.7	1.175" (29.8mm)	1.575" (40.0mm)	2.313" (58.8mm)	18	17.0	15.0	12.0	10.0	38.0	8.1	9.0	
6.8*	1.450" (36.8mm)	1.840" (46.7mm)	2.313" (58.8mm)	18x2	18.0	16.0	13.0	11.0	55.0	8.1	8.0	
8.2*	1.600" (40.6mm)	2.000" (50.8mm)	2.313" (58.8mm)	18x2	19.0	17.0	15.0	13.0	66.0	8.1	8.0	
10*	1.850" (47.0mm)	2.190" (55.6mm)	2.313" (58.8mm)	18x2	20.0	18.0	16.0	14.0	80.0	8.0	6.0	
15*	2.280" (57.9mm)	2.650" (67.3mm)	2.313" (58.8mm)	18x2	21.0	19.0	17.0	15.0	121.0	8.0	5.0	
20*	2.625" (66.7mm)	3.000" (76.2mm)	2.313" (58.8mm)	18x2	23.0	21.0	18.0	16.0	162.0	8.0	4.0	

GENERAL SPECIFICATIONS

PHYSICAL CHARACTERISTICS

CONSTRUCTION: NON-INDUCTIVE WOUND METALLIZED POLYPROPYLENE.

CASE: FLAME RETARDANT TAPE WRAP CASE AND EPOXY FILL.

LEAD MATERIAL: SINGLE AXIAL SOLDER COATED OR TINNED SOLID WIRE, AWG AS SPECIFIED IN TABLES. (CAPACITANCE VALUES MARKED WITH AN ASTERISK (*) HAVE DUAL AXIAL 18 AWG LEAD CLUSTERS TO HANDLE THE HIGHER CURRENT RATINGS.)

DIMENSIONS: AS SPECIFIED IN TABLES.

ELECTRICAL CHARACTERISTICS

CAPACITANCE: AS SPECIFIED IN TABLES $\pm$ REQUESTED TOLERANCE WHEN MEASURED AT OR REFERRED TO 1000 $\pm$ 20 Hz AND 25 $\pm$ 5 °C.

TOLERANCE: $\pm$ 1%, $\pm$ 2%, $\pm$ 5%, $\pm$ 10%, AND $\pm$ 20% AVAILABLE. OTHER TOLERANCES AVAILABLE UPON REQUEST.

DISSIPATION FACTOR: SHALL NOT BE GREATER THAN 0.1% WHEN MEASURED AT OR REFERRED TO 1000 $\pm$ 20 Hz AND 25 $\pm$ 5 °C.

INSULATION RESISTANCE: SHALL BE GREATER THAN 300,000 M Ω FOR CAPACITANCE VALUES 0.33 μ F AND LESS OR 100,000 M Ω x μ F FOR CAPACITANCE VALUES GREATER THAN 0.33 μ F WHEN MEASURED AFTER 2 MINUTES ELECTRIFICATION AT 100VDC AND 25 $\pm$ 5 °C.

DIELECTRIC STRENGTH: 150% RATED VOLTAGE FOR 1 MINUTE THROUGH A LIMITING RESISTANCE OF 100 OHMS/VOLT AT 25 $\pm$ 5 °C.

RATED VOLTAGE: 400VDC/220VAC, 600VDC/240VAC, AND 1000VDC/250VAC AVAILABLE.

TEMPERATURE: -55 °C TO +90 °C AT FULL RATED CURRENT AND VOLTAGE OPERATIONAL TEMPERATURE, +105 °C MAX STORAGE TEMPERATURE.

RATED CURRENT: PEAK AND RMS CURRENTS AS SPECIFIED IN TABLES.

ADDITIONAL INFORMATION

ORDERING INFORMATION: ALL ASC CAPACITORS ARE ORDERED BY "FAMILY CAP-TOL-VOLT" DESIGNATION. (I.E. TO ORDER AN X333F 1.0 μ F, $\pm$ 10%, 400VDC CAPACITOR, REQUEST PART NUMBER "X333F 1-10-400")

SEE ALSO: "GENERAL INFORMATION - POLYPROPYLENE CAPACITORS" DOCUMENT FOR ADDITIONAL PHYSICAL, ELECTRICAL, AND PERFORMANCE CHARACTERISTICS NOT MENTIONED IN THIS FILE.

WARNING: INFORMATION ON THIS FILE IS SUBJECT TO CHANGE WITHOUT NOTICE AT ASC'S DISCRETION.

LAST MODIFIED: 08/26/01