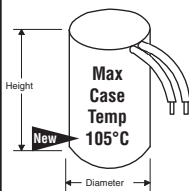
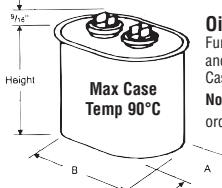
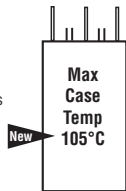


HID - NON-PCB CAPACITORS

CAPACITOR SPECIFICATIONS



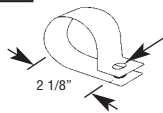
Dry-Film Capacitors Thermal Plastic Case
Dry-film capacitors contain no oil; are furnished with 8" leads and include integral resistor where required.



Oil-Filled Capacitor
Furnished with appropriate leads and/or resistors where required. Case must be grounded.
Note: Capacitor boots available, order catalog number CB-100.



CC-175 Mounting Clip
For 1.25 thru 1.75 in. diameter Round Case (Furnished as standard with -001 and -001 D suffix ballasts).



CC-200 Mounting Clip
For 2.00 in. diameter Round Case. Mount in the middle of can.

Dry-Film Capacitors

Dimensions (in)		
Letter	Diameter	Height
L	1.25	2.9
M	1.50	2.9 or 3.75
P	1.75	3.75 or 5.12
S	2.00	5.12

Oil-Filled Capacitors

Dimensions (in)			
Oval	A	B	Height
1.25	1.30	2.15	As Shown in Tables
1.25	1.55	2.70	
1.75	1.90	2.90	
2.00	1.95	3.65	

Recommended Capacitors for Bi-level Ballast Operation

Advance Ballast Family	Nominal Lamp Watts	ANSI Code	Lamp Watts at Low Light	Full Light Capacitance Mfd.	Low Light Capacitance Mfd.	Primary Capacitor	Secondary Capacitor	Capacitor Connection
Metal Halide 60 Hz CWA/SuperCWA Ballasts								
71A53_3	100	M90/140	55	10.0	7.8	10.0 mfd 330V	35.0 mfd 300V	Series
71A54_3	150	M102/142	90	22.0	15.0	22.0 mfd, 240V (7C220M24-R)	48.0 mfd, 300V (7C480P30)	Series
71A55_0	175	M57	122	10.0	8.0	10 mfd, 400V (7C100M40-R)	40 mfd, 300V (7C400P30-R)	Series
71A55_3	175 Pulse-Start	M137 or M152	102	11.0	7.7	11 mfd, 400V (7C110M40)	26 mfd, 330V (7C260.33-R)	Series
71A56_2 or 71A56_3	200 Pulse-Start	M136	102	15.0	9.3	15 mfd, 330V (7C150M33)	24 mfd, 300V (7C240P30)	Series
71A57_0 or 71A57_1	250	M58	127	15.0	9.0	15 mfd, 400V (7C150P40-R)	22.5 mfd, 300V (7C225P30-R)	Series
71A57_2	250 Pulse-Start	M138 or M153	133	17.0	10.8	17 mfd, 330V (7C170P33)	30 mfd, 345V (7C300S34)	Series
71A58_2	320 Pulse-Start	M132 or M154	149	21.0	13.1	21 mfd, 345V (7C210P34-R)	35 mfd, 300V (7C350P30-R)	Series
71A59_3	350 Pulse-Start	M131	163	22.5	14.4	22.5 mfd, 345V (7C225P34)	40 mfd, 300V (7C400 P30-R)	Series
71A60_1	400	M59	192	24.0	15.0	24 mfd, 400V (7C240P40-R)	40 mfd, 300V (7C400P30-R)	Series
71A60_2	400 Pulse-Start	M135 or M155	210	26.0	18.5	18.5 mfd, 330V (7C185P33-R)	7.5 mfd, 400V (7C075M40)	Parallel
71A63_3	450 Pulse-Start	M144	212	26.5	16.7	26.5 mfd, 400V (7C265P40-R)	45.0 mfd, 120V (7C450P12)	Series
71A64_2	750 Pulse-Start	M149	380	28.0	18.0	18 mfd, 400V (7C180P40-R)	10 mfd, 400V (7C100M40-R)	Parallel
71A64_8	875	M166	440	21.0	13.1	21 mfd 480V	35 mfd 170V	Series
71A64_8	875	M166	440	21.0	13.1	13 mfd 480V	8 mfd 480V	Parallel
71A65_0, 71A65_1, 71A65_2, or 71A65_3	1000 Probe or Pulse-Start	M47 or M141	571	24.0	15.0	24 mfd, 480V (MD2409-100)	40 mfd, 300V (7C400P30-R)	Series
High Pressure Sodium 60 Hz CWA Ballasts								
71A80_8	100	S54	52	34.0	26.0	26.0 mfd, 330V (7C260P33-R)	8.0 mfd, 330V (7C080L33-R)	Parallel
71A81_8	150	S55	66	55.0	40.0	40 mfd, 300V (7C400P30-R)	15 mfd, 330V (7C150M33)	Parallel
71A82_1	250	S50	144	35.0	28.0	28 mfd, 300V (7C280P30-R)	7 mfd, 330V (7C070L33-R)	Parallel
71A84_3	400	S51	189	55.0	40.0	40 mfd, 300V (7C400P30-R)	15 mfd, 330V (7C150M33)	Parallel
71A86_5	750	S111	356	75.0	55.0	35 mfd, 300V (7C350P30-R) in parallel with 20 mfd, 300V (7C200P33-R)	20 mfd, 330V (7C200P33-R)	Parallel
71A87_3	1000	S52	406	26.0	17.7	26 mfd, 525V (MD2602-030)	55 mfd, 240V (7C550P24)	Series
71A89_1	200	S66	130	24.0	18.0	24 mfd 280V	72 mfd 120V	Series
71A89_1	200	S66	130	24.0	18.0	18 mfd 280V	6 mfd 280V	Parallel

Capacitor Specifications

Mfd.	Voltage	7C Dry Capacitor Part Number ³	7T Dry Capacitor Part Number ³	Dia/Oval 7C/7T	Height 7C/7T	Ballast family where used
5	300	7C050L30RA		1.25	2.25	71A02x0, 5037, 5081, 5137, 78x1 (60 Hz)
6	300	7C060L30RA		1.25	2.75	71A5181, 78R1
7	300	7C070L30RA		1.25	2.75	71A1580, 50x7 (50 Hz. only), 79x1 (60 Hz)
7.5	400	7C075M40		1.50	2.90	Bi-Level, 71A5283
8	300	7C080L30RA		1.65	2.75	71A20x0, 52x0, 52x2 (60 Hz. only), 5237, 5281
8.4	300	7C084L33R		1.25	2.90	71A79x1 (50 Hz)
10	300	7C100M30RA		1.65	2.75	71A25x1 (60 Hz), 50Y1, 52Y1, 52Y2, 5337, 5340-T, 5383, 53Y3, 80x1 (60 Hz)
10	400	7C100M40RA		1.40	3.75	71A55x0 (60 Hz)
11	400	7C110M40RA		1.65	3.75	71A55x3
12	300	7C120M30RA		1.65	2.75	71A25x1 (50 Hz), 29D1, 50x1 (50 Hz), 53x0 (60Hz, except 5340-T), 5637, 80x1 (50 Hz)
12	450	MD1204100		1.75	2.90	71A55x0 (50 Hz)
13	525	MD1300-100		1.75	3.9	71A57E6
14	120	7C140L12RA		1.25	2.25	71A7707
14	300	7C140M30RA		1.65	2.75	71A04x0, 29R0, 52x1 (50 Hz), 52x2 (50 Hz), 5437, 5737, 81x2 (60 Hz)
15	300	7C150M30RA		1.65	2.75	71A56x2, 56x3
15	400	7C150P40RA		1.80	3.75	71A57x0 (60 Hz), 57x1
16	300	7C160M30RA		1.65	2.75	71A05F0, 54x0, 54x2, 80x0
16	400	7C160P40	7T160P40R	1.75	3.75/4.70	71A81x0, 07x0
16	525	MD1606-000		1.75	3.90	71A57x4, 82x0
16	525	MD1606-100		1.75	3.90	71A43x0
17	400	7C170P40RA		1.75	3.75	71A55x4, 5634, 57x2
17	550	MD1701-000		1.75	3.90	71A83x0
17	550	MD1701-100		1.75	3.90	71A69x0 (Use one 17 mfd-550V and one 26 mfd-540V in parallel)
17.5	300	7C175M30RA		1.50	3.75	71A0590, 30x2, 53N0, 5837, 81x2 (50 Hz)
18	400	7C180P40RA	7T180P40R	1.75	3.75/4.70	56x3 (50 Hz), 71A57x0 (50 Hz), 89x4
18.5	330	7C185P33R		1.75	3.90	60x2 Bi-Level
20	120	7C200M12RA		1.25	2.75	71A0201, 7705, 7807
20	330	7T200P33R	7T200P33R	1.50	3.75/4.70	71A57x2 (50 Hz), 53M0, 5880, 5937, 6037, 6137, 79x0, 81R6, 8146, 8176, 8196
20	450	MD2006-100		1.75	3.90	71A60x6
21	400	7C210P40RA		1.75	4.80	71A58x2 (60 Hz)
21	525	MD2100-030		1.75	4.80	71A59x4, 60x4 (60 Hz), 6334, 64x8
22	240	7C220M24RA		1.65	2.75	71A54A3
22.5	300	7C225P30RA	7T225P30R	1.65	3.75/4.70	71A35x2 (60 Hz), 5486, 6337
22.5	345	7C225P34		1.75	5.12	71A59x3
22.5	345	7C225S34		2.00	3.75	Alternative to 7C225P34
24	300	7C240P30RA	7T240P30R	1.65	3.75/4.70	71A79x6, 89x1
24	400	7C240P40RA		1.75	4.80	71A58x2 (50 Hz), 60x1 (60 Hz), 63x2
24	400	7C240S40R	7T240S40R	2.00	3.75/4.70	Alternative to 7C240P40R
24	480	MD2409-000		1.75	3.90	71A84x0, 65x3 (60 Hz), 65x1
24	480	MD2409-100		1.75	3.90	71A50x0, 60N1, 65x2 (60 Hz), 65x0
25.5	400	7C255P40R		1.75	3.75	71A59x3 (50 Hz)
26	330	7C260P33R		1.75	5.12	71A60x2 (60 Hz), 61E6
26	330	7C260S33R		2.00	3.75	Alternative to 7C260P33R
26	540	MD2602-030		1.75	5.30	71A69x0 (Uses one 17 mfd-540V and one 26 mfd-540V capacitor in parallel), 87x3 (60 Hz)
26	540	MD2602-100		1.75	5.30	71A60M2, 65x2 (50 Hz), 65x3 (50 Hz only)
26.5	400	7C265P40RA		1.75	4.80	71A63x3 (60 Hz)
27.5	240	7C275P24RAT1		1.75	3.75	71A79J9
28	120	7C280M120RA	7T280P12R	1.65/1.75	2.75/4.70	71A5005, 5105, 7805, 7907
28	300	7C280P30RA	7T280P30R	1.75	3.75/4.70	71A35R2, 54x2 (50 Hz), 79x8, 82x6, 89x0
28	400	7C280S40RA		2.00	4.80	71A64x0, 64x2 (60 Hz)
28	580	MD1408-230		1.50	3.90	71A87x3 (50 Hz only, uses two 14mfd-580 volt capacitors in parallel)
30	345	7C300S34	7T300S34R	2.00	5.12/4.70	71A60N2
32	525	MD3202100		2.00	3.90	71A67x2 (60 Hz)
34	240	7C340P24RA	7T340P24R	1.65/1.75	3.75/4.70	71A80x8
34	550	MD1701-200		1.75	3.90	71A68x0 (Uses two 17mfd-550 volt capacitors in parallel)
35	240	7C350P24RA	7T350P24R	1.65/1.75	3.75/4.70	71A54M2, 80x6, 82x1 (60 Hz)
35	300	7C350P30RA		1.65	4.75	71A40x1 (60 Hz)
36	120	7C360M12RA	7T360P12R	1.65	2.75/4.70	71A5205, 8007, 50Y5
40	300	7C400P30RA	7T400S30R	1.75/2.00	4.75	71A40R1, 65E6 (two in series), 82x1 (50 Hz only), 65Y6 (two in series)
45	120	7C450P12RA		1.60	2.75	71A8005
45	300	7C450P30RA	7T450S30R	1.75/2.00	4.75	71A65M6, 83x1
48	300	7C480S30RA		2.00	5.12	71A84x6, 85x6
48	330	7C480S33R		2.00	5.12	71A85x8
52	240	7C520P24RA		1.75	3.75	71A8156, 81E6
52	280	7C520S28RA		2.00	3.90	Bi-Level
55	120	7C550P12RA	7T550P12R	1.65/1.75	3.75/4.70	71A8107
55	240	7C550P24RA		1.75	3.75	71A81x8, 84x3 (60 Hz)
58	240	7C580P24RA		1.75	3.75	71A8593
60	240	7C600P24RA		1.75	3.75	71A99x2, 71A9968
64	280	7C640S28RA		2.00	5.12	71A84x3 (50 Hz), 85x5
66	280	7C660S28RA		2.00	5.12	71A9942, 71A9943
75	280	7C750S28RA		2.00	5.12	71A86x5

1. All capacitors contain no PCB's. 2. "R" suffix denotes capacitors with a discharge resistor where required by UL.

3. MD_ denotes 90° Oil Filled, 7C_ denotes 105° Dry Film with leads. 7T_ denotes 105° Dry Film with terminals

