

# Dry Metalized Film Capacitor Reference

## ADV7C240P40R

| Mfd. | Voltage Rating | Catalog Number | Case Size | MERCURY      |                |  | METAL HALIDE  |  |  | HIGH PRESSURE SODIUM     |                       |   | LOW PRESSURE SODIUM |                   |                               |
|------|----------------|----------------|-----------|--------------|----------------|--|---|--|--|--------------------------|-----------------------|---|---------------------|-------------------|-------------------------------|
|      |                |                |           | Lamp Watts   | ANSI Code      | Ballast Family                           | Lamp Watts  | ANSI Code  | Ballast Family   | Lamp Watts               | ANSI Code             | Ballast Family                                      | Lamp Watts          | ANSI Code         | Ballast Family                |
| 5.0  | 330            | 7C050L33       | L         | -            | -              | -  | 35/39W<br>35/39W<br>50W                             | M130<br>M130<br>M110                                       | 71A5037<br>71A5081<br>71A5137  | 50W                      | S68                   | 71A78x1 <sup>†</sup>                                | 18W                 | L69               | 71A02x0                       |
| 6.0  | 330            | 7C060L33       | L         | -            | -              | -  | 50W   | M110   | 71A5181  | 50W                      | S68                   | 71A78R1   | -                   | -                 | -                             |
| 7.0  | 330            | 7C070L33-R     | L         | 50W          | H46            | 71A1580                                  | 35/39W<br>70W                                       | M130<br>M143   | 71A50S7<br>71A5283   | 70W                      | S62                   | 71A79x1 <sup>†</sup>                                | -                   | -                 | -                             |
| 8.0  | 330            | 7C080L33-R     | L         | 75W          | H43            | 71A20x0                                  | 70W<br>70W<br>70W<br>70W                            | M85<br>M98<br>M98<br>M139                                  | 71A52x0<br>71A52x2 <sup>†</sup><br>71A5237<br>71A52x1                        | -                        | -                     | -   | -                   | -                 | -                             |
| 8.4  | 330            | 7C084L33-R     | L         | -            | -              | -  | -   | -  | -  | 70W                      | S62                   | 71A79N1,79S1  | -                   | -                 | -                             |
| 10.0 | 330            | 7C100M33-R     | M         | 100W         | H38,H44        | 71A25x1 <sup>†</sup>                     | 100W<br>100W<br>35/39W<br>50W<br>70W<br>100W<br>70W | M90<br>M90<br>M130<br>M110<br>M139<br>M90/M140<br>M98/M144 | 71A5337<br>71A5383<br>71A50Y1<br>71A51H1<br>71A52Y1<br>71A5340, 53Y3<br>52Y2 | 100W                     | S54                   | 71A80x1 <sup>†</sup> , 80W1                         | -                   | -                 | -                             |
| 10.0 | 400            | 7C100M40-R     | M1        | 175W         | H39            | 71A155x0 <sup>†</sup>                    | 150W<br>175W  | M107<br>M157   | 71A55x0 <sup>†</sup>   | -                        | -                     | -   | -                   | -                 | -                             |
| 11.0 | 400            | 7C110M40       | M1        | -            | -              | -  | 175W  | M137,M152  | 55x3   | -                        | -                     | -   | -                   | -                 | -                             |
| 12.0 | 330            | 7C120M33-R     | M         | 100W<br>125W | H38,H44<br>H42 | 71A25N1<br>71A29D1                       | 100W<br>200W<br>35/39W<br>70W                       | M90<br>M136<br>M130<br>M98/M143                            | 71A53x0<br>71A5637<br>71A50M1<br>71A52S7                                     | 100W<br>150W             | S54<br>S55            | 71A80N1<br>71A81W2                                  | -                   | -                 | -                             |
| 14.0 | 120            | 7C140L12       | L         | -            | -              | -  | -   | -  | -  | 35W                      | S76                   | 71A7707   | -                   | -                 | -                             |
| 14.0 | 330            | 7C140M33-R     | M         | 125W         | H42            | 71A29R0                                  | 70W<br>150W<br>70W                                  | M98/M143<br>M102/M142<br>M139                              | 71A52N2, 52M2<br>71A5437<br>71A52M1  | 150W<br>100W<br>250/400W | S55<br>S54<br>S50/S51 | 71A81x2 <sup>†</sup><br>71A80S1<br>71A8392          | 35W<br>55W          | L70<br>L71        | 71A04X0                       |
| 15.0 | 330            | 7C150M33       | M1        | -            | -              | -  | 200W  | M136   | 71A56x2  | -                        | -                     | -   | -                   | -                 | -                             |
| 15.0 | 400            | 7C150P40-R     | P1        | 250W         | H37            | 71A57x0 <sup>†</sup> , 57x1 <sup>†</sup> | 250W  | M58  | 71A57x0 <sup>†</sup> , 57x1 <sup>†</sup>                                     | -                        | -                     | -   | -                   | -                 | -                             |
| 16.0 | 330            | 7C160M33       | M1        | -            | -              | -  | 150W  | M102/M142<br>M81   | 71A54x2<br>71A54x0   | 100W                     | S54                   | 71A80x0   | 135W<br>180W<br>90W | L73<br>L74<br>L72 | 71A07x0<br>71A07x0<br>71A05F0 |
| 16.0 | 400            | 7C160P40       | P1        | -            | -              | -  | -   | -  | -  | 150W                     | S55                   | 71A81x0   | -                   | -                 | -                             |
| 17.0 | 330            | 7C170M33       | M1        | -            | -              | -  | 250W  | M138/M153  | 71A57x2  | -                        | -                     | -   | -                   | -                 | -                             |
| 17.0 | 400            | 7C170P40       | P1        | -            | -              | -  | 175W<br>200W  | M137/M152<br>M136  | 71A55x4<br>71A5634   | -                        | -                     | -   | -                   | -                 | -                             |
| 17.5 | 330            | 7C175M33-R     | M1        | 175W         | H39            | 71A30x2                                  | 100W<br>320W  | M90<br>M132/M154   | 71A53N0<br>71A5837   | 150W                     | S55                   | 71A81N2   | 90W                 | L72               | 71A0590                       |
| 18.0 | 400            | 7C180P40-R     | P1        | -            | -              | -  | 250W  | M58  | 71A57N0,57M0   | 200W                     | S66                   | 71A8964   | -                   | -                 | -                             |
| 20.0 | 120            | 7C200M12       | M         | -            | -              | -  | -   | -  | -  | 50W                      | S68                   | 71A7807   | 18W                 | L69               | 71A0201                       |
| 20.0 | 330            | 7C200P33-R     | P1        | -            | -              | -  | 250W<br>350W<br>400W<br>400W<br>100W<br>250W        | M80<br>M131<br>M59<br>M135/M155<br>M90<br>M138/M140        | 71A5880<br>71A5937<br>71A6037<br>71A6137<br>71A53M0<br>71A57N2               | 70W<br>150W              | S62<br>S56            | 71A79x0<br>71A81R6<br>71A8146<br>71A8176<br>71A8196 | -                   | -                 | -                             |
| 21.0 | 345            | 7C210P34-R     | P1        | -            | -              | -  | 320W  | M132/M154  | 71A58x2 <sup>†</sup>   | -                        | -                     | -   | -                   | -                 | -                             |
| 22.0 | 240            | 7C220M24-R     | M1        | -            | -              | -  | 150W  | M102<br>M142   | 71A54A3  | -                        | -                     | -   | -                   | -                 | -                             |
| 22.5 | 300            | 7C225P30-R     | P1        | 250W         | H37            | 71A35x2                                  | 150W<br>450W  | M81<br>M144  | 71A5486<br>71A6337   | 150W                     | S55                   | 71A81S2   | -                   | -                 | -                             |
| 22.5 | 345            | 7C225P34       | P1        | -            | -              | -  | 350W  | M131   | 71A59x3  | -                        | -                     | -   | -                   | -                 | -                             |
| 24.0 | 300            | 7C240P30       | P1        | -            | -              | -  | -   | -  | -  | 70W<br>200W              | S62<br>S66            | 71A79x6<br>71A89x1                                  | -                   | -                 | -                             |
| 24.0 | 400            | 7C240P40-R     | P2        | 400W         | H33            | 71A60x1 <sup>†</sup> , 63x2 <sup>*</sup> | 400W<br>320W  | M59<br>M132/M154   | 71A60x1 <sup>†</sup> , 63x2 <sup>*</sup><br>71A58N2,58M2                     | -                        | -                     | -   | -                   | -                 | -                             |

# Dry Metalized Film Capacitors

for Mercury, Metal Halide, and High and Low Pressure Sodium Lamp Ballasts



## Advance Dry Capacitors now rated at 105°C!



### Product Overview

Advance Dry Metalized Film Capacitors provide superior versatility and performance over oil-filled equivalents. Pioneered in HID lighting by Advance, this technology has now been advanced to include 105°C rating - an innovative breakthrough!

### Availability/Ordering

- Advance Dry Metalized Capacitors are standard with all HID ballasts requiring capacitors rated 400 volts or less.
- To order, add one of the following suffixes to the appropriate ballast model number.
  - 001D denotes ballast retrofit/replacement kit including dry film-capacitor
  - 500D includes core & coil with dry-film capacitor
  - 510D includes core & coil with welded bracket and dry-film capacitor

### Features / Benefits

- 105°C case temperature
  - Longer life at given ambient temperature than 90°C rated oil filled equivalents
  - Higher ambient fixture ratings possible; location relative to heat source not as critical
- No exposed live parts
  - Exempt from UL and CSA clearance requirements, which allows more flexibility in new fixture design
  - Mounts with inexpensive clips
- Compact size
  - Easier to fit into existing fixtures
  - Facilitates new fixture design possibilities
- Thermoplastic housing
  - Electrically safe, requires no grounding
  - Non-corrosive, less susceptible to damage
- UL/CSA approved
  - Eliminates need to resubmit fixtures
  - Internal bleed resistor included where required
- Metalized film technology
  - Inherent "self-clearing" characteristic prevents failing in a "shorted" mode
  - Environmentally safe - no oil, no PCB's, no DEHP
- 100% encapsulated
  - Preludes moisture
  - Enhances reliability

# Dry Metalized Film Capacitor Reference

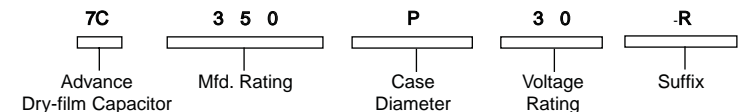
| Mfd. | Voltage Rating | Catalog Number | Case Size | MERCURY    |           |                | METAL HALIDE  |              |                                 | HIGH PRESSURE SODIUM        |                          |  | LOW PRESSURE SODIUM |           |                |
|------|----------------|----------------|-----------|------------|-----------|----------------|---------------|--------------|---------------------------------|-----------------------------|--------------------------|--|---------------------|-----------|----------------|
|      |                |                |           | Lamp Watts | ANSI Code | Ballast Family | Lamp Watts    | ANSI Code    | Ballast Family                  | Lamp Watts                  | ANSI Code                | Ballast Family                           | Lamp Watts          | ANSI Code | Ballast Family |
| 25.5 | 400            | 7C255P40R      | P2        | -          | -         | -              | 350W          | M131         | 71A59N3                         | -                           | -                        | -  | -                   | -         | -              |
| 26.0 | 330            | 7C260P33-R     | P1        | -          | -         | -              | 400W          | M135/M155    | 71A60x2 <sup>†</sup><br>71A61E6 | -                           | -                        | -  | -                   | -         | -              |
| 26.5 | 400            | 7C265P40-R     | P2        | -          | -         | -              | 450W          | M144         | 71A63x3                         | -                           | -                        | -  | -                   | -         | -              |
| 28.0 | 120            | 7C280M12       | M         | -          | -         | -              | 35/39W<br>50W | M130<br>M110 | 71A5005<br>71A5105              | 50W<br>70W                  | S104<br>S62              | 71A7805<br>71A7907                       | -                   | -         | -              |
| 28.0 | 300            | 7C280P30-R     | P1        | -          | -         | -              | 150W          | M102/M142    | 71A54N2                         | 70W<br>200W<br>250W<br>400W | S62<br>S66<br>S50<br>S51 | 71A79x8<br>71A89x0<br>71A82x6<br>71A84W2 | -                   | -         | -              |
| 28.0 | 400            | 7C280S40       | S2        | -          | -         | -              | 750W          | M149         | 71A64x2,64x0                    | -                           | -                        | -  | -                   | -         | -              |
| 30.0 | 345            | 7C300S34       | S2        | -          | -         | -              | 450W          | M135,M155    | 71A60N2                         | -                           | -                        | -  | -                   | -         | -              |
| 34.0 | 240            | 7C340P24       | P1        | -          | -         | -              | -             | -            | -                               | 100W                        | S54                      | 71A80x8                                  | -                   | -         | -              |
| 35.0 | 240            | 7C350P24       | P1        | -          | -         | -              | 150W          | M102/M142    | 71A54M2                         | 100W<br>250W                | S54<br>S50               | 71A80x6<br>71A82x1 <sup>†</sup>          | -                   | -         | -              |
| 35.0 | 300            | 7C350P30-R     | P2        | 400W       | H33       | 71A40x1        | -             | -            | -                               | 250/400W                    | S55/S51                  | 71A8392                                  | -                   | -         | -              |
| 36.0 | 120            | 7C360M12       | M1        | -          | -         | -              | 70W<br>35/39W | M98<br>M130  | 71A5205<br>71A50Y5              | 100W                        | S54                      | 71A8007                                  | -                   | -         | -              |
| 40.0 | 300            | 7C400P30-R     | P2        | 1000W      | H36       | 71A65E6*       | 1000W         | M47          | 71A65Y6*<br>71A65E6*            | 250W                        | S50                      | 71A82N1,<br>82V1,82W1                    | -                   | -         | -              |
| 45.0 | 120            | 7C450P12       | P1        | -          | -         | -              | -             | -            | -                               | 100W                        | S105                     | 71A8005                                  | -                   | -         | -              |
| 45.0 | 300            | 7C450P30-R     | P2        | -          | -         | -              | -             | -            | -                               | 310W                        | S67                      | 71A83x1                                  | -                   | -         | -              |
| 48.0 | 300            | 7C480P30       | P2        | -          | -         | -              | -             | -            | -                               | 400W<br>430W                | S51<br>S145              | 71A84x6<br>71A85x6                       | -                   | -         | -              |
| 48.0 | 330            | 7C480S33R      | S2        | -          | -         | -              | -             | -            | -                               | 600W                        | S106                     | 71A85x8                                  | -                   | -         | -              |
| 52.0 | 240            | 7C520P24       | P2        | -          | -         | -              | -             | -            | -                               | 150W                        | S55                      | 71A8156,81E6                             | -                   | -         | -              |
| 55.0 | 120            | 7C550P12       | P1        | -          | -         | -              | -             | -            | -                               | 150W                        | S55                      | 71A8107                                  | -                   | -         | -              |
| 55.0 | 240            | 7C550P24       | P2        | -          | -         | -              | -             | -            | -                               | 150W<br>400W                | S55<br>S51               | 71A81x8<br>71A84x3                       | -                   | -         | -              |
| 64.0 | 280            | 7C640S28-R     | S2        | -          | -         | -              | -             | -            | -                               | 400W<br>600W                | S51<br>S106              | 71A84N3, 84V3<br>71A85x5                 | -                   | -         | -              |
| 75.0 | 280            | 7C750S28-R     | S2        | -          | -         | -              | -             | -            | -                               | 750W                        | S111                     | 71A86E5,86F5                             | -                   | -         | -              |

### Footnotes:

† - 60hz ballasts only

\* - Requires two capacitors of the same mfd rating

### Capacitor Catalog Numbering System



### KEY

350 = 35.0 mfd

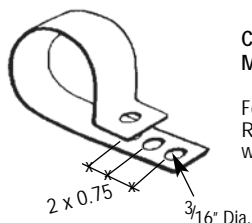
P = Case Diameter

30 = 300V

-R = Suffix indicates capacitor has internal bleed resistor

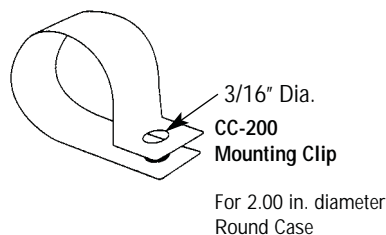
| Case Dimensions (Inches) |          |        |
|--------------------------|----------|--------|
| Case Size                | Diameter | Height |
| L                        | 1.25     | 2.90   |
| M                        | 1.50     | 2.90   |
| M1                       | 1.50     | 3.75   |
| P1                       | 1.75     | 3.75   |
| P2                       | 1.75     | 5.15   |
| S2                       | 2.00     | 5.15   |

All capacitors furnished with 8" leads.

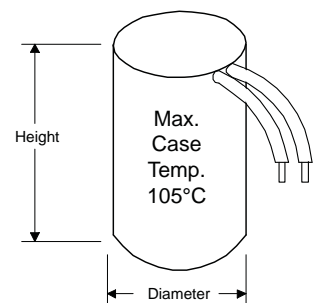


CC-175  
Mounting Clip

For 1.25, 1.50, and 1.75 in. diameter Round Case (Furnished as standard with -001 and -001 D suffix ballasts).



For 2.00 in. diameter Round Case



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