

Type D8, Lighting Capacitors

Film Capacitors for High Intensity Discharge (HID) and Sign Ballast Lighting

CD-Aero produces both oil-filled and dry capacitors for the HID and sign ballast lighting markets. Constructed with film designed to withstand the rigors of the application, these units are built to operate up to 105°C.

HID lighting capacitors are built with a ±3% tolerance on capacitance, and are designed to operate for a minimum of 60,000 hours. Sign ballast capacitors are constructed with film/foil technology and have tolerances based on application requirements.



Highlights

- Made to EIA-456-A standards
- Metal or plastic case
- Wet or dry construction
- Life test temperature to 105°C
- 18 AWG wire lead termination
- Dual rated HID
- Dual or triple value caps for sign ballasts
- UL-810 fault current protection

Specifications

Capacitance Range	5 to 56 µF
Capacitance Tolerance	±3%
Rated Voltage	240 to 400 Vac
Operating Temperature Range	-40°C to +105°C for HID; 0°C to +85°C for sign ballasts
RoHS Compliant	

Part Numbering System

CDE's part numbering system is a descriptive part number made of several different components such as can size, voltage rating, etc. The descriptors are explained below using D84W2456M as a representative part number:

D	84	W	24	56	M
Type	Can Size	Impregnant	Voltage Rating	Capacitance Code	Voltage / Capacity Discriptor
D	81 = 30 mm Rd 82 = 35 mm Rd 83 = 40 mm Rd 84 = 45 mm Rd 85 = 50 mm Rd	W = Dry w/ wire	12 = 120 Vac 24 = 240 Vac 28 = 280 Vac 33 = 330 Vac 40 = 400 Vac	56 = 56 µF	90°C Full Life 100°C Full Life 100°C Reduced Life

Type D8, Lighting Capacitors

Film Capacitors for High Intensity Discharge (HID) and Sign Ballast Lighting Ratings

Dry, Unprotected, Round Plastic Case

Rated for 60,000 hours

Cap. (µF)	Catalog Part Number	Base Size	Can Height Inches/ mm
120 VAC, 105°C Max Operating Case Temperature			
28	D82W1228M	EE	2.68 (68.1)
36	D82W1236M	EE	2.68 (68.1)
22	D82W2422M	EE	2.68 (68.1)
34	D82W2434M	EE	3.62 (92.0)
10	D82W3010M	EE	2.68 (68.1)
10	D82W4010M	EE	3.62 (92.0)
240 VAC, 105°C Max Operating Case Temperature			
14	D81W2414M	AA	2.68 (68.1)
15	D81W2415M	AA	2.68 (68.1)
17.5	D83W2417N	BB	2.68 (68.1)
20	D83W2420M	BB	2.68 (68.1)
22.5	D83W2422N	BB	2.68 (68.1)
28	D83W2428M	BB	2.68 (68.1)
30	D83W2430M	BB	2.68 (68.1)
34	D83W2434M	BB	3.62 (92.0)
35	D83W2435M	BB	3.62 (92.0)
36	D83W2436M	BB	3.62 (92.0)
40	D83W2440M	BB	3.62 (92.0)
45	D83W2445M	BB	3.62 (92.0)
48	D84W2448M	CC	3.62 (92.0)
52	D84W2452M	CC	3.62 (92.0)
55	D84W2455M	CC	3.62 (92.0)
56	D84W2456M	CC	3.62 (92.0)
62	D84W2462M	CC	3.62 (92.0)
280 VAC, 105°C Max Operating Case Temperature			
5	D81W2805M	AA	2.17 (55.1)
6	D81W2806M	AA	2.17 (55.1)
7	D81W2807M	AA	2.17 (55.1)
8	D81W2808M	AA	2.68 (68.1)
10	D81W2810M	AA	2.68 (68.1)
12	D83W2812M	BB	2.68 (68.1)
13	D83W2813M	BB	2.68 (68.1)
14	D83W2814M	BB	2.68 (68.1)

Cap. (µF)	Catalog Part Number	Base Size	Can Height Inches/ mm
280 VAC, 105°C Max Operating Case Temperature			
16	D83W2816M	BB	2.68 (68.1)
17.5	D83W2817N	BB	2.68 (68.1)
18.5	D83W2818N	BB	2.68 (68.1)
20	D83W2820M	BB	2.68 (68.1)
21	D83W2821M	BB	2.68 (68.1)
22	D83W2822M	BB	2.68 (68.1)
22.5	D83W2822N	BB	2.68 (68.1)
24	D83W2824M	BB	3.62 (92.0)
24.5	D83W2824N	BB	3.62 (92.0)
25	D83W2825M	BB	3.62 (92.0)
35	D83W2835M	BB	3.62 (92.0)
48	D84W2848M	CC	3.62 (92.0)
56	D84W2856M	CC	4.61 (117.1)
330 VAC, 105°C Max Operating Case Temperature			
5	D81W3305M	AA	2.17 (55.1)
7	D81W3307M	AA	2.68 (68.1)
8	D83W3308M	BB	2.68 (68.1)
10	D83W3310M	BB	2.68 (68.1)
12	D83W3312M	BB	2.68 (68.1)
15	D83W3315M	BB	2.68 (68.1)
16	D83W3316M	BB	2.68 (68.1)
17.5	D83W3317N	BB	3.62 (92.0)
26	D84W3326M	CC	3.62 (92.0)
28	D84W3328M	CC	3.62 (92.0)
45	D84W3345M	CC	4.61 (117.1)
48	D85W3348M	DD	4.61 (117.1)
400 VAC, 105°C Max Operating Case Temperature			
10	D83W4010M	BB	3.62 (92.0)
12	D83W4012M	BB	3.62 (92.0)
15	D83W4015M	BB	3.62 (92.0)
18	D84W4018M	CC	3.62 (92.0)
24	D84W4024M	CC	4.61 (117.1)
30	D85W4030M	DD	4.61 (117.1)

Notice and Disclaimer: All product drawings, descriptions, specifications, statements, information and data (collectively, the "Information") in this datasheet or other publication are subject to change. The customer is responsible for checking, confirming and verifying the extent to which the Information contained in this datasheet or other publication is applicable to an order at the time the order is placed. All Information given herein is believed to be accurate and reliable, but it is presented without any guarantee, warranty, representation or responsibility of any kind, expressed or implied. Statements of suitability for certain applications are based on the knowledge that the Cornell Dubilier company providing such statements ("Cornell Dubilier") has of operating conditions that such Cornell Dubilier company regards as typical for such applications, but are not intended to constitute any guarantee, warranty or representation regarding any such matter – and Cornell Dubilier specifically and expressly disclaims any guarantee, warranty or representation concerning the suitability for a specific customer application, use, storage, transportation, or operating environment. The Information is intended for use only by customers who have the requisite experience and capability to determine the correct products for their application. Any technical advice inferred from this Information or otherwise provided by Cornell Dubilier with reference to the use of any Cornell Dubilier products is given gratis (unless otherwise specified by Cornell Dubilier), and Cornell Dubilier assumes no obligation or liability for the advice given or results obtained. Although Cornell Dubilier strives to apply the most stringent quality and safety standards regarding the design and manufacturing of its products, in light of the current state of the art, isolated component failures may still occur. Accordingly, customer applications which require a high degree of reliability or safety should employ suitable designs or other safeguards (such as installation of protective circuitry or redundancies or other appropriate protective measures) in order to ensure that the failure of an electrical component does not result in a risk of personal injury or property damage. Although all product-related warnings, cautions and notes must be observed, the customer should not assume that all safety measures are indicated in such warnings, cautions and notes, or that other safety measures may not be required.