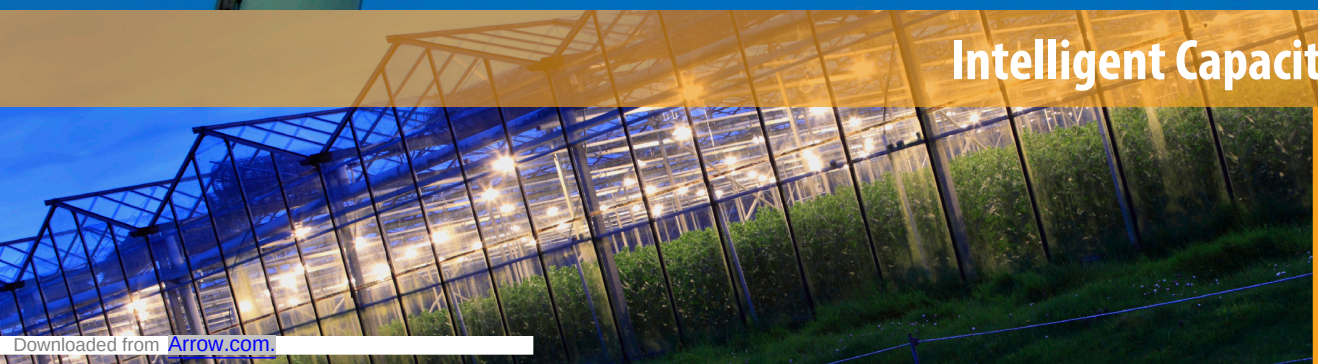
CDE

Lighting Capacitors

FILM CAPACITORS FOR HIGH INTENSITY DISCHARGE (HID) AND SIGN BALLAST LIGHTING

RoHS COMPLIANT



Intelligent Capacitor Solutions



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High quality and long life characterize Cornell Dubilier film capacitors for HID and sign ballast lighting applications. Like all CDE products, our rugged, reliable capacitors are constructed using high quality materials and Lean Six Sigma manufacturing practices. These capacitors undergo 100% outgoing electrical and visual testing, and representative UL fault current, environmental and accelerated life testing (ALT)* as part of our quality assurance process.

CDE maintains manufacturing facilities in China and India to enable quick turn-around for shipping and delivery worldwide. If you have specialized needs, our flexible manufacturing processes allow us to quickly provide custom configurations. For emergency lighting applications, please see our axial wrap and fill capacitor line.



*Accelerated life testing (ALT) is performed for 2000 hours at 125% voltage rating and temperature at 105°C.

CDE provides intelligent capacitor solutions.



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RoHS COMPLIANT

Lighting Capacitors

FILM CAPACITORS FOR HIGH INTENSITY DISCHARGE (HID) AND SIGN BALLAST LIGHTING



CDE 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.

Applications

- Area Lighting
- HID Magnetic Ballast Kits for Greenhouses or Hydroponics
- High / Low Bay / Warehousing
- Horticultural Lighting
- Parking Lot Installations
- Sign Ballast Kits
- Sports Lighting
- Street Lamp Fixtures
- Street Lighting

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
- RoHS compliant
- Dual rated HID
- Dual or triple value caps for sign ballasts
- UL-810 fault current protection

Specifications

Capacitance Range:	1 to 75 µF for HID; 1.4 to 2.6 µF with dual or triple rating for sign ballasts
HID Capacitance Tolerance:	±3%
AC Voltage Range:	120 VAC to 660 VAC for HID; 550 VAC to 1,200 VAC for sign ballasts
Temperature Range:	-40°C to +105°C for HID; 0°C to +85°C for sign ballasts
Approval Certification:	UL, cUL UL construction only for dry HID

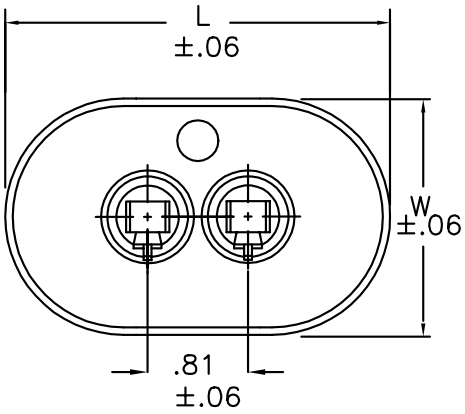
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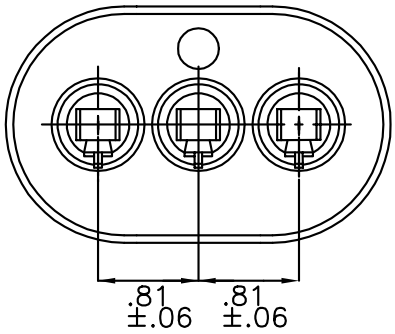
Oval Oil-Filled Case Sizes

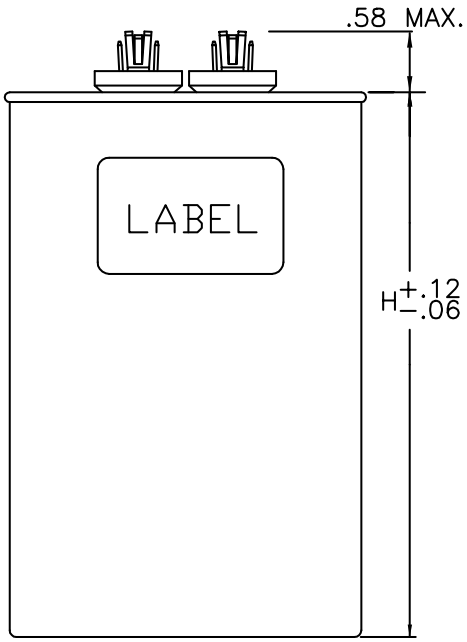
Base Size	Description	L Inches	W Inches
A	1¼" Oval	2.16	1.31
B	1½" Oval	2.69	1.56
C	1¾" Oval	2.91	1.91
D	2" Oval	3.66	1.97

Oval Single Cover Configuration



Oval Dual Cover Configuration

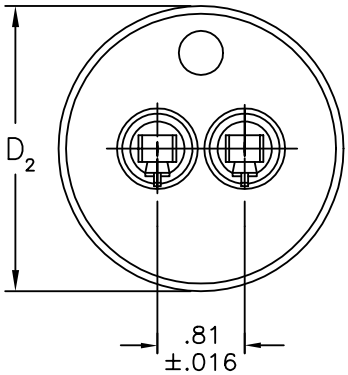




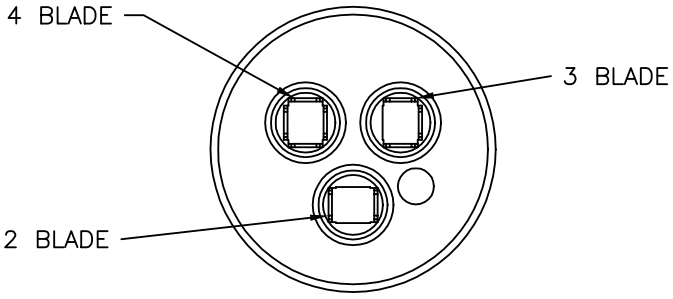
Round Oil-Filled Case Sizes

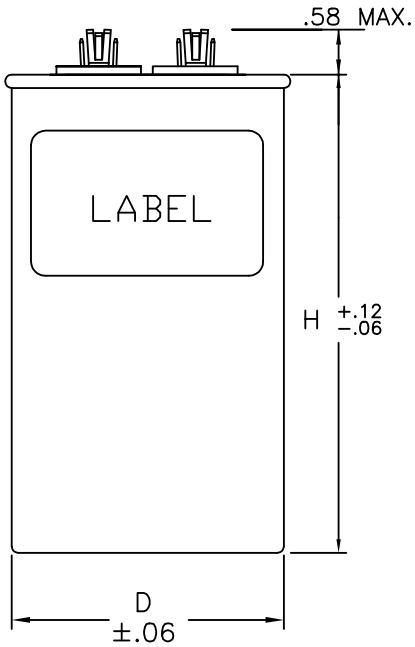
Base Size	Description	D Inches	D_2 Inches
P	1¾" Round	1.75	1.87
S	2" Round	2.00	2.12
T	2½" Round	2.50	2.62

Round Single Cover Configuration



Round Dual Cover Configuration





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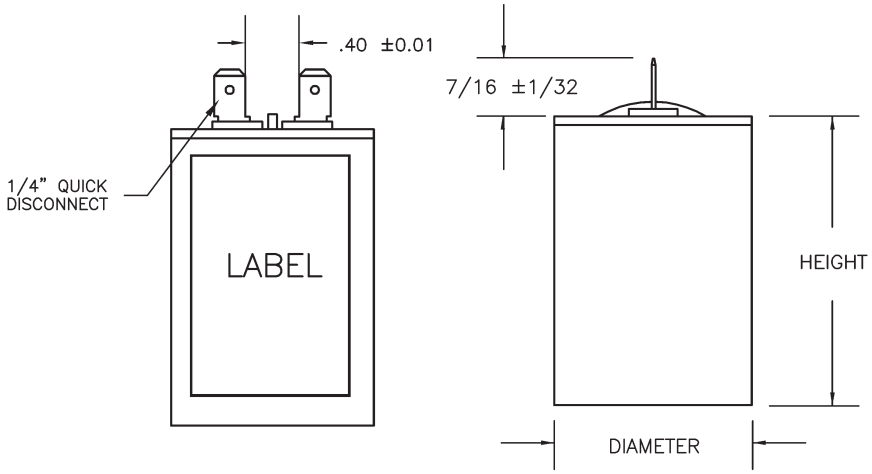
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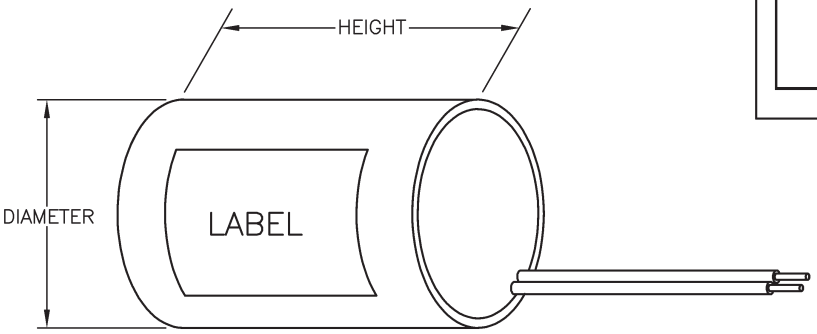
Dry Plastic Case Sizes

Base Diameter Size **Inches (mm)**

Quick Connect



Wire Lead



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 Z73S4026MN as a representative part number:

Z 73 S 40 26 M N

TYPE

CAN SIZE
73 = 1.75" Rd
74 = 2" Rd
76 = 2.50" Rd
91 = 1.25" Oval
92 = 1.50" Oval
93 = 1.75" Oval
94 = 2.00" Oval
81 = 30 mm Rd
83 = 40 mm Rd
84 = 45 mm Rd
85 = 50 mm Rd

IMPREGNANT
S = Epoxidized Soy Bean Oil
W = Dry w/ wire
A = Dry w/ QC

VOLTAGE RATING
33 = 330 VAC
40 = 400 VAC

CAPACITANCE CODE
26 = 26 µF
40 = 40 µF

VOLTAGE / CAPACITY DESCRIPTOR
90°C Full Life
100°C Full Life100°C Reduced Life

CDE FACTORY

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Oil-Filled, Oval Metal Case

Rated for 60,000 hours

240 VAC, 90°C Case Temperature

CAP (µF)	CDE P/N	BASE SIZE	CAN HEIGHT Inches (mm)
35	Z92S2435MN	B	3.75 (95.3)
40	Z92S2440MN	B	3.75 (95.3)
45	Z92S2445MN	B	3.75 (95.3)
52	Z92S2452MN	B	3.75 (95.3)
55	Z92S2455MN	B	3.75 (95.3)

300 VAC, 90°C Case Temperature

CAP (µF)	CDE P/N	BASE SIZE	CAN HEIGHT Inches (mm)
5	Z91S3005MN	A	2.19 (55.6)
6	Z91S3006MN	A	2.19 (55.6)
12	Z91S3012MN	A	2.88 (73.2)
14	Z92S3014MN	B	2.75 (69.9)
28	Z93S3028MN	C	3.13 (79.5)
40	Z93S3040MN	C	3.25 (82.6)
55	Z93S3055MN	C	3.88 (98.6)
64	Z93S3064MN	C	4.25 (108)

330 VAC, 90°C Case Temperature

CAP (µF)	CDE P/N	BASE SIZE	CAN HEIGHT Inches (mm)
7	Z91S3307MN	A	2.19 (55.6)
8	Z91S3308MN	A	2.19 (55.6)
10	Z91S3310MN	A	2.69 (68.3)
12	Z91S3312MN	A	2.88 (73.2)
14	Z91S3314MN	A	2.88 (73.2)
16	Z91S3316MN	A	3.75 (95.3)
17.5	Z92S3317NN	B	3.13 (79.5)
24	Z93S3324MN	C	2.75 (69.9)
26	Z93S3326MN	C	3.13 (79.5)
29	Z93S3329MN	C	3.13 (79.5)
30	Z93S3330MN	C	3.13 (79.5)
34	Z93S3334MN	C	3.13 (79.5)
35	Z93S3335MN	C	3.13 (79.5)
48	Z93S3348MN	C	3.88 (98.6)

400 VAC, 90°C Case Temperature

CAP (µF)	CDE P/N	BASE SIZE	CAN HEIGHT Inches (mm)
10	Z92S4010MN	B	2.75 (69.9)
15	Z93S4015MN	C	2.75 (69.9)
21	Z93S4021MN	C	3.13 (79.5)
22.5	Z93S4022NN	C	3.13 (79.5)
24	Z93S4024MN	C	3.13 (79.5)

480 VAC, 90°C Case Temperature

CAP (µF)	CDE P/N	BASE SIZE	CAN HEIGHT Inches (mm)
3	Z91S4803MN	A	2.25 (57.2)
4	Z91S4804MN	A	2.69 (68.3)
5	Z91S4805MN	A	2.88 (73.2)
6	Z92S4806MN	B	2.75 (69.9)
10	Z92S4810MN	B	2.75 (69.9)
12	Z93S4812MN	C	3.13 (79.5)
15	Z92S4815MN	B	3.75 (95.3)
20	Z93S4820MN	C	3.75 (95.3)
21	Z93S4821MN	C	3.75 (95.3)
22	Z93S4822MN	C	3.88 (98.6)
24	Z93S4824PN	C	3.88 (98.6)
26	Z93S4826MN	C	3.88 (98.6)
28	Z93S4828PN	C	3.88 (98.6)

525 VAC, 90°C Case Temperature

CAP (µF)	CDE P/N	BASE SIZE	CAN HEIGHT Inches (mm)
16	Z93S5216NN	C	3.13 (79.5)
24	Z93S5224NN	C	4.25 (108.0)
26	Z93S5226NN	C	4.25 (108.0)
26	Z94S5226NN	D	2.88 (73.2)
32	Z93S5232NN	C	4.75 (120.7)
32	Z94S5232NN	D	3.75 (95.3)

400-525 VAC, 100°C Case Temperature

CAP (µF)	CDE P/N	BASE SIZE	CAN HEIGHT Inches (mm)	VAC
24	Z94S4024BN	D	3.25 (82.6)	400
24	Z94S4824BN	D	3.75 (95.3)	480
21	Z94S5221JN	D	3.75 (95.3)	525
26	Z94S5226JN	D	3.75 (95.3)	525

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Oil-Filled, Round Metal Case

Rated for 60,000 hours

CAP (µF)	CDE P/N	BASE SIZE	CAN HEIGHT Inches (mm)
300 VAC, 90°C Case Temperature			
8	Z73S3008MN	P	2.17 (55.1)
14	Z73S3014MN	P	2.38 (60.5)
22.5	Z73S3022NN	P	2.88 (73.2)
330 VAC, 90°C Case Temperature			
5	Z73S3305MN	P	2.25 (57.2)
7	Z73S3307MN	P	2.88 (73.2)
12	Z73S3312MN	P	2.38 (60.5)
14	Z73S3314MN	P	2.88 (73.2)
28	Z73S3328MN	P	3.15 (80.0)
400 VAC, 90°C Case Temperature VAC			
10	Z73S4010MN	P	2.38 (60.5)
15	Z73S4015MN	P	2.88 (73.2)
22.5	Z73S4022NN	P	3.75 (95.3)
24	Z73S4024MN	P	3.75 (95.3)
480 VAC, 90°C Case Temperature			
10	Z73S4810MN	P	2.88 (73.2)
24	Z74S4824MN	S	3.25 (82.6)
24	Z76S4824MN	T	3.15 (80.0)
525 VAC, 90°C Case Temperature			
26	Z74S5226NN	S	4.75 (120.7)
32	Z74S5232NN	S	4.92 (125.0)
32	Z76S5232NN	T	3.55 (90.2)

CAP (µF)	CDE P/N	BASE SIZE	CAN HEIGHT Inches (mm)	VAC
400-480 VAC, 100°C Case Temperature				
10	Z73S4010BN	P	2.38 (60.5)	400
15	Z73S4015BN	P	3.25 (82.6)	400
24	Z74S4024BN	S	3.75 (95.3)	400
24	Z74S4824BN	S	4.25 (108.0)	480

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About CDE

CDE is a leading provider of film capacitors for industrial, medical and specialized applications serving original equipment manufacturers (OEM) and distributors. The company has world-class design, manufacturing and testing facilities in New Bedford, Massachusetts and global manufacturing facilities in China and India to enable quick turn-around for shipping and delivery worldwide.

CDE capacitors are among the world's most reliable components. Our extensive custom design and development capabilities coupled with broad, standardized product offerings allow us to provide intelligent capacitor solutions that meet or exceed our customers' application requirements.

Our aim is to be the best and most sought after provider of capacitor solutions for specialty markets.

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