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



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

Aerovox 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 $\pm 3\%$ 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
- RoHS compliant
- Dual rated HID
- Dual or triple value caps for sign ballasts
- UL-810 fault current protection

Specifications

Capacitance Range: 1 to 75 μ F for HID; 1.4 to 2.6 μ F 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



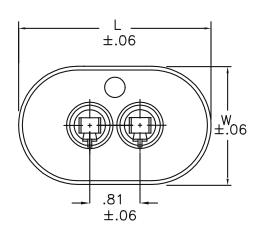
FILM CAPACITORS FOR HIGH INTENSITY DISCHARGE (HID) AND SIGN BALLAST LIGHTING

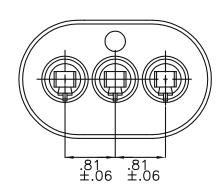
Oval Oil-Filled Case Sizes

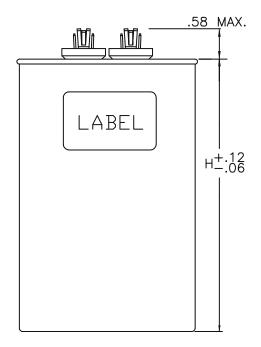
Base Size	Description	L Inches	W Inches	
Α	1¼" Oval	2.16	1.31	
В	1½″ Oval	2.69	1.56	
C	1 ³ / ₄ " Oval	2.91	1.91	
D	2" Oval	3.66	1.97	

Oval Single Cover Configuration

Oval Dual Cover Configuration





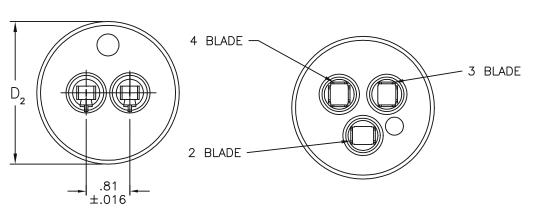


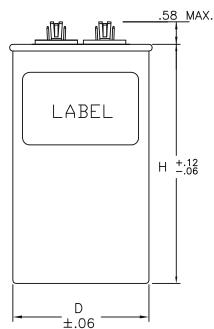
Round Oil-Filled Case Sizes

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

Round Single Cover Configuration

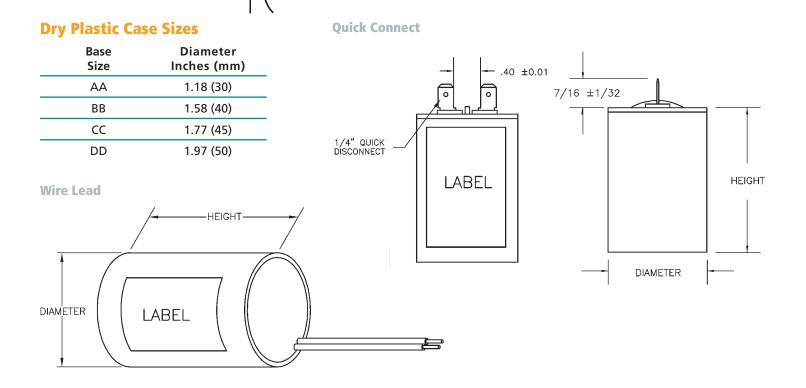
Round Dual Cover Configuration

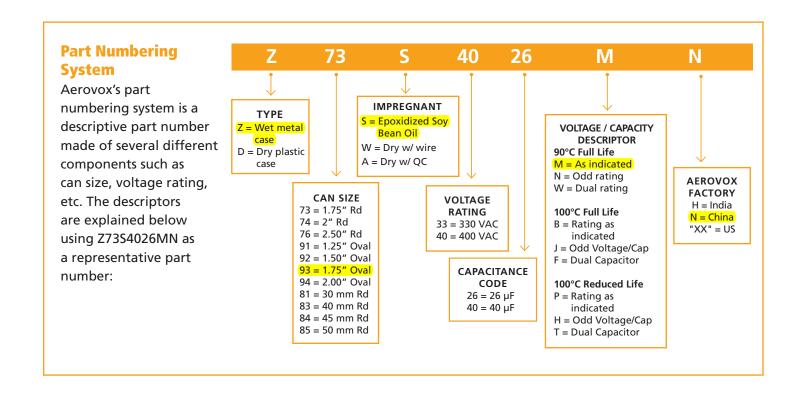






FILM CAPACITORS FOR HIGH INTENSITY DISCHARGE (HID) AND SIGN BALLAST LIGHTING







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

Oil-Filled, Oval Metal Case

Rated for 60,000 hours

240 VAC, 90°C Case Temperature 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 5 Z91S3005MN A 2.19 (55.6) 6 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 7 Z91S3307MN A 2.19 (55.6) 8 Z91S3310MN A 2.19 (55.6) 8 Z91S3310MN A 2.19 (55.6) 10 Z91S3314MN A 2.88 (73.2) <th>CAP (μF)</th> <th>AEROVOX P/N</th> <th>BASE SIZE</th> <th>CAN HEIGHT Inches (mm)</th>	CAP (μF)	AEROVOX P/N	BASE SIZE	CAN HEIGHT Inches (mm)	
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 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 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) 14 Z91S3314MN A 2.88 (73.2) 16 Z91S3316MN 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)	240 VA	.C, 90°C Case Temp	perature		
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 5 Z91S3005MN A 2.19 (55.6) 6 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 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) 14 Z91S3314MN A 2.88 (73.2) 16 Z91S3316MN A 3.75 (95.3) 17.5 Z92S3317NN B 3.13 (79.5) 24 Z93S3326MN C 3.13 (79.5) 29 Z93S3329MN C 3.13 (79.5)	35	Z92S2435MN	В	3.75 (95.3)	
52 Z92S2452MN B 3.75 (95.3) 55 Z92S2455MN B 3.75 (95.3) 300 VAC, 90°C Case Temperature 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 7 Z91S3307MN A 2.19 (55.6) 8 Z91S3310MN A 2.19 (55.6) 10 Z91S3312MN A 2.88 (73.2) 14 Z91S3314MN A 2.88 (73.2) 14 Z91S3316MN A 3.75 (95.3) 17.5 Z92S3317NN B 3.13 (79.5) 24 Z93S3326MN C 3.13 (79.5) 29 Z93S3329MN C	40	Z92S2440MN	В	3.75 (95.3)	
55 Z92S2455MN B 3.75 (95.3) 300 VAC, 90°C Case Temperature 5 Z91S3005MN A 2.19 (55.6) 6 Z91S3012MN A 2.88 (73.2) 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 7 Z91S3307MN A 2.19 (55.6) 8 Z91S3310MN A 2.19 (55.6) 10 Z91S3310MN A 2.69 (68.3) 12 Z91S3314MN A 2.88 (73.2) 14 Z91S3316MN A 2.88 (73.2) 16 Z91S3316MN A 3.13 (79.5) 24 Z93S3324MN C 2.75 (69.9) 26 Z93S3329MN	45	Z92S2445MN	В	3.75 (95.3)	
300 VAC, 90°C Case Temperature 5	52	Z92S2452MN	В	3.75 (95.3)	
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 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 3.13 (79.5) 24 Z93S3324MN C 2.75 (69.9) 26 Z93S3329MN C 3.13 (79.5) 29 Z93S3329MN C 3.13 (79.5)	55	Z92S2455MN	В	3.75 (95.3)	
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 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 Z93S3326MN C 3.13 (79.5) 29 Z93S3329MN C 3.13 (79.5)	300 VA	.C, 90°C Case Tem	perature		
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 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 Z93S3326MN C 3.13 (79.5) 29 Z93S3329MN C 3.13 (79.5)	5	Z91S3005MN	А	2.19 (55.6)	
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 7 Z91S3307MN A 2.19 (55.6) 8 Z91S3310MN 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)	6	Z91S3006MN	А	2.19 (55.6)	
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 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 Z93S3326MN C 3.13 (79.5) 29 Z93S3329MN C 3.13 (79.5)	12	Z91S3012MN	А	2.88 (73.2)	
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 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)	14	Z92S3014MN	В	2.75 (69.9)	
55 Z93S3055MN C 3.88 (98.6) 64 Z93S3064MN C 4.25 (108) 330 VAC, 90°C Case Temperature 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)	28	Z93S3028MN	С	3.13 (79.5)	
64 Z93S3064MN C 4.25 (108) 330 VAC, 90°C Case Temperature 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)	40	Z93S3040MN	C	3.25 (82.6)	
330 VAC, 90°C Case Temperature 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)	55	Z93S3055MN	С	3.88 (98.6)	
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)	64	Z93S3064MN	C	4.25 (108)	
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)	330 VAC, 90°C Case Temperature				
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)	7	Z91S3307MN	А	2.19 (55.6)	
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)	8	Z91S3308MN	А	2.19 (55.6)	
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)	10	Z91S3310MN	Α	2.69 (68.3)	
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)	12	Z91S3312MN	Α	2.88 (73.2)	
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)	14	Z91S3314MN	А	2.88 (73.2)	
24 Z93S3324MN C 2.75 (69.9) 26 Z93S3326MN C 3.13 (79.5) 29 Z93S3329MN C 3.13 (79.5)	16	Z91S3316MN	Α	3.75 (95.3)	
26 Z93S3326MN C 3.13 (79.5) 29 Z93S3329MN C 3.13 (79.5)	17.5	Z92S3317NN	В	3.13 (79.5)	
29 Z93S3329MN C 3.13 (79.5)	24	Z93S3324MN	C	2.75 (69.9)	
	26	Z93S3326MN	С	3.13 (79.5)	
30 Z93S3330MN C 3.13 (79.5)	29	Z93S3329MN	С	3.13 (79.5)	
	30	Z93S3330MN	С	3.13 (79.5)	
34 Z93S3334MN C 3.13 (79.5)	34	Z93S3334MN	C	3.13 (79.5)	
35 Z93S3335MN C 3.13 (79.5)	35	Z93S3335MN	С	3.13 (79.5)	
48 Z93S3348MN C 3.88 (98.6)	48	Z93S3348MN	C	3.88 (98.6)	

CAP (μF)	AEROVOX P/N		BASE S	IZE	CAN HE Inches (
400 VA	.C, 90°C Case Te	m	oeratur	e		
10	Z92S4010MN		В		2.75 (6	9.9)
15	Z93S4015MN		С		2.75 (6	9.9)
21	Z93S4021MN		С		3.13 (7	9.5)
22.5	Z93S4022NN		С		3.13 (79.5)	
24	Z93S4024MN		С		3.13 (7	9.5)
480 VAC, 90°C Case Temperature						
3	Z91S4803MN		А		2.25 (5	7.2)
4	Z91S4804MN		А		2.69 (6	8.3)
5	Z91S4805MN		А		2.88 (7	3.2)
6	Z92S4806MN		В		2.75 (6	9.9)
10	Z92S4810MN		В		2.75 (6	9.9)
12	Z93S4812MN		С		3.13 (7	9.5)
15	Z92S4815MN		В		3.75 (9	5.3)
20	Z93S4820MN		С		3.75 (9	5.3)
21	Z93S4821MN	821MN			3.75 (95.3)	
22	Z93S4822MN		С		3.88 (98.6)	
24	Z93S4824PN		С		3.88 (98.6)	
26	Z93S4826MN		С		3.88 (98.6)	
28	Z93S4828PN		C		3.88 (9	8.6)
525 VAC, 90°C Case Temperature						
16	Z93S5216NN		С		3.13 (7	9.5)
24	Z93S5224NN		С		4.25 (10	08.0)
26	Z93S5226NN		C 4.25 (10		08.0)	
26	Z94S5226NN		D		2.88 (73.2)	
32	Z93S5232NN		С		4.75 (12	20.7)
32	Z94S5232NN		D		3.75 (95.3)	
CAP (μF)	AEROVOX P/N	BA	SE SIZE		AN HEIGHT	VAC

400-525 VAC, 100°C Case Temperature

D

D

D

D

3.25 (82.6)

3.75 (95.3)

3.75 (95.3)

3.75 (95.3)

400

480

525

525

Z94S4024BN

Z94S4824BN

Z94S5221JN

Z94S5226JN

24

24

21

26

Aerovox[®]