

EAN - Extreme Application Non-polar Aluminum Electrolytic Capacitors



- High Energy Storage
- Non-polar
- Screw Terminals
- 85°C Operation
- Suitable for Use in Power Applications

General Specifications

Operating Temperature:

-40°C to +85°C

Voltage Range:

90 WVDC to 500 WVDC

Capacitance Range:

6 μ F to 1000 μ F

Capacitance Tolerance:

-0% +30%; -10% +10%;

-10% +20%; -10% +50%;

-10% +75%; -15% +15%;

QA Stability Test:

Apply WVDC for 1000 hours at 65°C

- Capacitance change \leq 15% from initial limits
- DC leakage current meets initial limits
- ESR \leq 175% of initial measured value

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Part Number Information

DuraCap Catalog Number **CGS** **184** **U** **010** **X3L** **(3)** **P** **H)** **[-S]**

TYPE: _____
 Identifies the basic type
 EAP, EAW, EAN, EAF, EASB, EAL

CAPACITANCE: _____
 Expressed in microfarads
 The first two digits are significant figures
 The third digit is the number of zeros

CAPACITANCE TOLERANCE: _____
F = -0 / +30% **R** = -15 / +15% **U** = -10 / +75%
G = -0 / +50% **S** = -10 / +30% **X** = -10 / +20%
M = -20 / +20% **T** = -10 / +50% **Z** = -10 / +10%

DC VOLTAGE RATING: _____
 Zeros are used to precede the voltage rating where necessary to complete the three digit block
 The letter 'R' indicates a decimal point

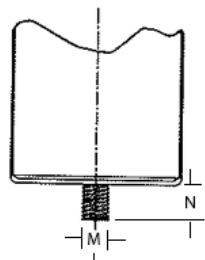
CASE CODE: _____
 See chart on next page

INSULATING SLEEVE: _____
 0 = No sleeve
 1 = Mylar (Polyester)
 3 = Single Layer PVC - .008" thickness
 7 = Double Layer .008" PVC (.016" total thickness)
 8 = Blue PVC - .012" thickness

POLARITY: _____
P = Polar **S** = Semi-Polar **N** = Non-Polar

TERMINAL: _____
H = High Post
L = Low Post
V = Printed Circuit Mount
D = Low Post, Low Resistance Screw Mount (1/4 - 28 Thread)
F = High Post Metric Thread
G = Low Post Metric Thread
N = High Post, Low Resistance Screw Mount (1/4 - 28 Thread)
S = Stud Mount (see chart below)

CAN DIAMETER	M THREAD	N INCH	N MM
1.375	M8	.472	12
1.750	M8	.472	12
2.000	M12	.630	16
2.500	M12	.630	16
3.000	M12	.630	16
3.500	M12	.630	16

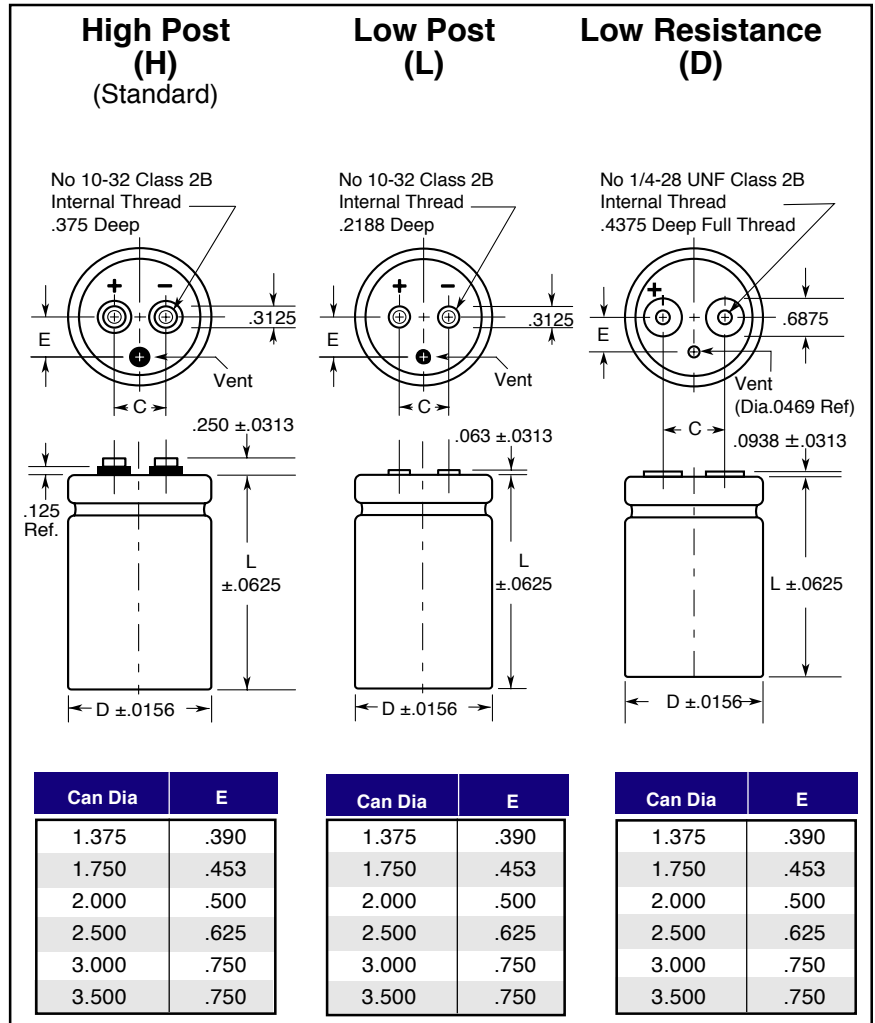


STUDED CAN
 CROSS SECTION DETAIL

Type EAN Dimensions and Size Charts

Case Code Chart

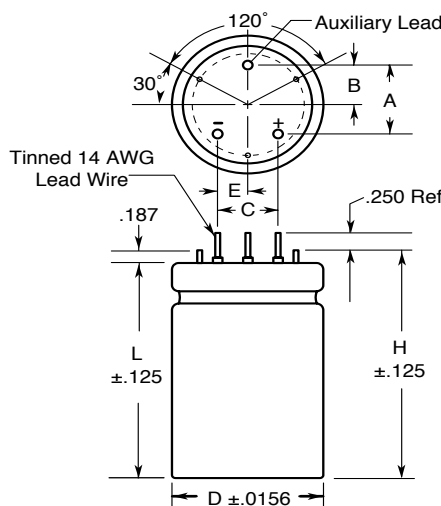
Text Case Code	Uninsulated Can						Mounting Bracket
	Inches		mm		Inches	mm	
	D	L	D	L	C	C	
R2C	1.375	2.125	35	54	.500	12.7	VR3
R2L	1.375	2.625	35	67	.500	12.7	VR3
R3C	1.375	3.125	35	79.4	.500	12.7	VR3
R3L	1.375	3.625	35	92	.500	12.7	VR3
R4C	1.375	4.125	35	105	.500	12.7	VR3
R4L	1.375	4.625	35	117.5	.500	12.7	VR3
R5C	1.375	5.125	35	130	.500	12.7	VR3
R5L	1.375	5.625	35	143	.500	12.7	VR3
U2C	1.750	2.125	44.5	54	.750	19	VR6
U2L	1.750	2.625	44.5	67	.750	19	VR6
U3C	1.750	3.125	44.5	79.4	.750	19	VR6
U3L	1.750	3.625	44.5	92	.750	19	VR6
U4C	1.750	4.125	44.5	105	.750	19	VR6
U4L	1.750	4.625	44.5	117.5	.750	19	VR6
U5C	1.750	5.125	44.5	130	.750	19	VR6
U5L	1.750	5.625	44.5	143	.750	19	VR6
V2C	2.000	2.125	50.8	54	.875	22.2	VR8
V2L	2.000	2.625	50.8	67	.875	22.2	VR8
V3C	2.000	3.125	50.8	79.4	.875	22.2	VR8
V3L	2.000	3.625	50.8	92	.875	22.2	VR8
V4C	2.000	4.125	50.8	105	.875	22.2	VR8
V4L	2.000	4.625	50.8	117.5	.875	22.2	VR8
V5C	2.000	5.125	50.8	130	.875	22.2	VR8
V5L	2.000	5.625	50.8	143	.875	22.2	VR8
W3C	2.500	3.125	63.5	79.4	1.125	28.6	VR10
W3L	2.500	3.625	63.5	92	1.125	28.6	VR10
W4C	2.500	4.125	63.5	105	1.125	28.6	VR10
W4L	2.500	4.625	63.5	117.5	1.125	28.6	VR10
W5C	2.500	5.125	63.5	130	1.125	28.6	VR10
W5L	2.500	5.625	63.5	143	1.125	28.6	VR10
X3L	3.000	3.625	76.2	92	1.250	31.7	VR12
X4C	3.000	4.125	76.2	105	1.250	31.7	VR12
X4L	3.000	4.625	76.2	117.5	1.250	31.7	VR12
X5C	3.000	5.125	76.2	130	1.250	31.7	VR12
X5L	3.000	5.625	76.2	143	1.250	31.7	VR12
X5R	3.000	5.875	76.2	149	1.250	31.7	VR12
X6L	3.000	6.625	76.2	168	1.250	31.7	VR12
X7L	3.000	7.625	76.2	194	1.250	31.7	VR12
X8L	3.000	8.625	76.2	219	1.250	31.7	VR12
Y3L	3.500	3.625	88.9	92	1.25	31.7	N/A
Y4C	3.500	4.125	88.9	105	1.25	31.7	N/A
Y4L	3.500	4.625	88.9	117.5	1.25	31.7	N/A
Y5C	3.500	5.125	88.9	130	1.25	31.7	N/A
Y5L	3.500	5.625	88.9	143	1.25	31.7	N/A
Y5R	3.500	5.875	88.9	149	1.25	31.7	N/A
Y6L	3.500	6.625	88.9	168	1.25	31.7	N/A
Y7L	3.500	7.625	88.9	194	1.25	31.7	N/A
Y8L	3.500	8.625	88.9	219	1.25	31.7	N/A



Add .015 inches to diameter and .045 inches to length for PVC insulating sleeve.

PC Mounting Board Dimensions

Case Code	Uninsulated Can						
	Inches						
	D	L	H	A	B	C	E
R1N	1.375	1.750	1.937	.550	.375	.500	.250
R2C	1.375	2.125	2.312	.550	.375	.500	.250
R2L	1.375	2.625	2.812	.550	.375	.500	.250
R3C	1.375	3.125	3.312	.550	.375	.500	.250
R3L	1.375	3.625	3.812	.550	.375	.500	.250
R4C	1.375	4.125	4.312	.550	.375	.500	.250
R4L	1.375	4.625	4.812	.550	.375	.500	.250
R5C	1.375	5.125	5.312	.550	.375	.500	.250
R5L	1.375	5.625	5.812	.550	.375	.500	.250
V2C	2.000	2.125	2.312	1.000	.575	.800	.400
V2L	2.000	2.625	2.812	1.000	.575	.800	.400
V3C	2.000	3.125	3.312	1.000	.575	.800	.400
V3L	2.000	3.625	3.812	1.000	.575	.800	.400
V4C	2.000	4.125	4.312	1.000	.575	.800	.400
V4L	2.000	4.625	4.812	1.000	.575	.800	.400
V5C	2.000	5.125	5.312	1.000	.575	.800	.400
V5L	2.000	5.625	5.812	1.000	.575	.800	.400



Capacitance (µF)	Diameter	Length	Part Description	Terminal
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90 WVDC; 110 VDC Surge

1000	2.500	5.625	EAN102T090W5L3SH	HP 10-32
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175 WVDC; 200 WVDC

200	1.000	2.625	EAN201X175N2L3NT	Solder Eyelet
200	1.000	4.125	EAN201X175N4C3NT	Solder Eyelet
240	1.000	2.625	EAN241X175N2L3NT	Solder Eyelet
270	1.375	3.125	EAN271X175R3C3NH	HP 10-32
330	1.750	3.125	EAN331X175U3C3NH	HP 10-32
370	1.750	3.125	EAN371X175U3C3NH	HP 10-32
450	1.750	2.500	EAN451X175U2J3NT	Solder Eyelet
450	1.750	2.688	EAN451X175U2M3NT	Solder Eyelet
460	1.750	3.125	EAN461X175U3C3NH	HP 10-32
460	1.750	3.125	EAN461X175U3C3NH	HP 10-32

185 WVDC; 210 VDC Surge

400	1.375	2.313	EAN401X185R2F3NC	3 wire lead
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200 WVDC; 250 VDC Surge

45	1.000	2.000	EAN450X200N2O3NB	2 wire lead
55	1.000	3.000	EAN550X200N2O3PB	2 Wire Lead
60	1.000	2.625	EAN600Z200N2L3NB	2 wire lead
60	1.000	2.625	EAN600Z200N2L3PB	2 wire lead
145	1.000	4.125	EAN141R200N4C3NB	2 wire lead
170	1.000	2.125	EAN171X200N2C3NB	2 wire lead
170	1.000	2.000	EAN171X200N2O3NR	Radial snap
200	1.000	2.625	EAN201X200N2L3PT	Solder Eyelet
300	1.000	3.625	EAN301R200N3L3NB	2 wire lead
350	1.000	4.125	EAN351Z200N4C3NB	2 wire lead
350	1.000	4.125	EAN351Z200N4C3NB	2 wire lead
400	1.000	3.625	EAN401T200N3L3NA	Axial

250 WVDC; 300 VDC Surge

230	1.750	3.625	EAN231Z250U3L3NL	LP 10-32
500	2.500	4.125	EAN501X250W4C7NH	HP 10-32

Capacitance (µF)	Diameter	Length	Part Description	Terminal
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360 WVDC; 400 VDC Surge				
50	1.375	3.125	EAN500X360R3C3NH	HP 10-32
100	1.375	3.125	EAN101X360R3C3NH	HP 10-32
120	1.375	3.125	EAN121X360R3C3NH	HP 10-32
180	1.750	3.125	EAN181X360U3C3NH	HP 10-32
200	2.000	3.125	EAN201X360V3C7NH	HP 10-32
250	1.750	4.125	EAN251X360U4C3NL	LP 10-32
250	2.000	3.125	EAN251X360V3C3NF	HP 5mm
300	1.375	4.625	EAN301X360R4L3PL	LP 10-32

400 WVDC; 450 VDC Surge				
25	1.375	3.125	EAN250U400R3C3NU	Solder Lug
35	1.000	3.000	EAN350Z400N3O3NB	2 wire lead
60	1.000	4.125	EAN600R400N4C3NB	2 wire lead
130	1.375	1.570	EAN131X400R1K3NR	Radial snap
150	1.000	3.000	EAN151F400N3O3NR	Radial snap

425 WVDC; 475 VDC Surge				
45	1.000	2.625	EAN045X425N2L3NT	Solder Eyelet
50	1.000	2.625	EAN050X425N2L3NB	2 wire lead
75	1.200	2.625	EAN075X425B2L3NB	2 wire lead
140	1.375	3.625	EAN141X425R3L3NL	LP 10-32

450 WVDC; 525 VDC Surge				
50	1.375	3.125	EAN500X450R3C7NH	HP 10-32
100	1.375	3.125	EAN101X450R3C7NH	HP 10-32
100	1.375	3.125	EAN101X450R3C7NH	HP 10-32
150	1.000	4.125	EAN151X450N4C3NB	2 wire lead

500 WVDC; 535 VDC Surge				
6	3.500	8.625	EAN006X500Y8L3PM	HP 6mm
22	1.000	2.125	EAN220T500N2C3ST	Solder Eyelet
30	1.375	2.125	EAN300X500R2C3NC	3 wire lead