

EAF - Extreme Application Photoflash, Power Electrolytic Capacitors

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- High Energy Density Product
- Suitable for use in most demanding applications requiring high current discharge or flash energy storage
- Custom designs available upon request

General Specifications

Operating Temperature:
-40°C to +55°C

Voltage Range:
250 WVDC to 500 WVDC

Capacitance Range:
75 μ F to 30,000 μ F

Capacitance Tolerance:
-10% +20%; -10% +50%;
-10% +75%; -20% + 20%;

QA Stability Test:

Apply WVDC for 2000 hours at 55°C

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

DuraCap International, Inc
P.O. Box 1579 Woodstock, Ontario
N4S 0A7 Canada

Phone: (519) 539-4891
Fax: (519) 539-6684
<http://www.duracap.com/>

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

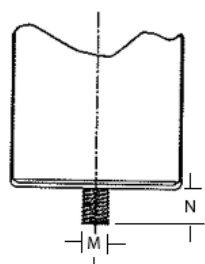
CASE CODE: _____
See chart on next page

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 |



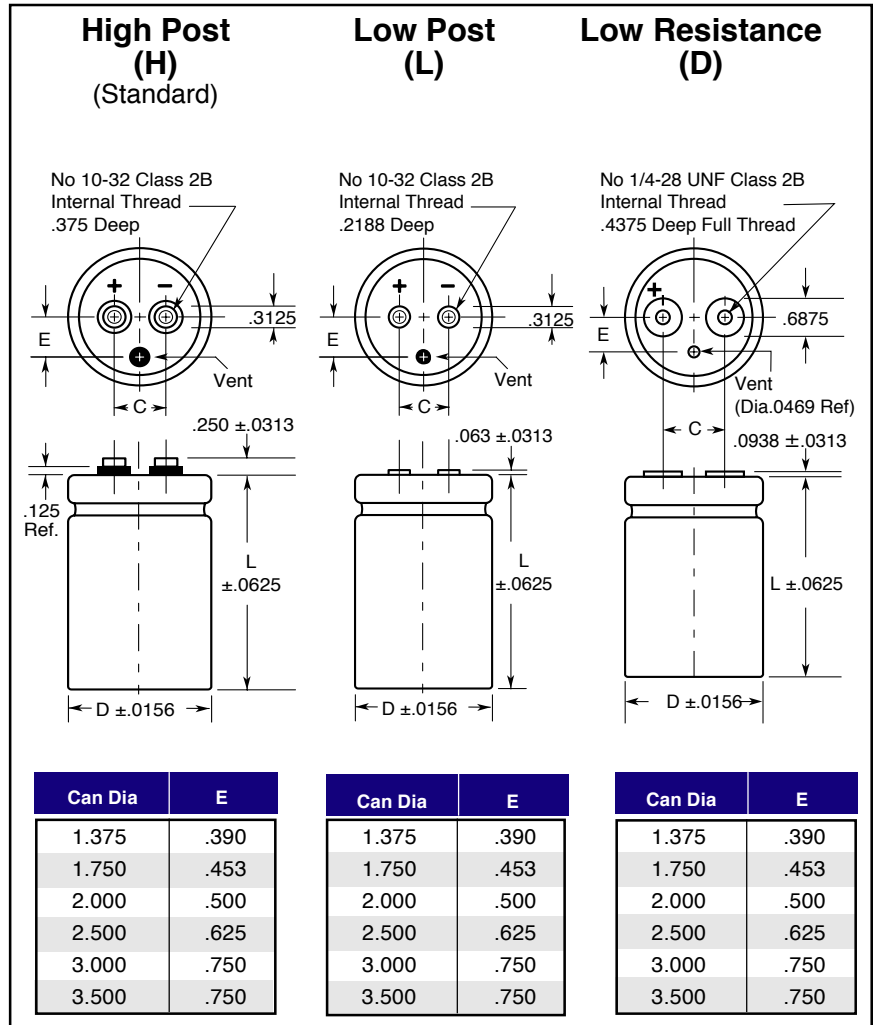
STUDED CAN CROSS SECTION DETAIL

Type EAF Dimensions and Size Charts



Case Code Chart

| 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 |

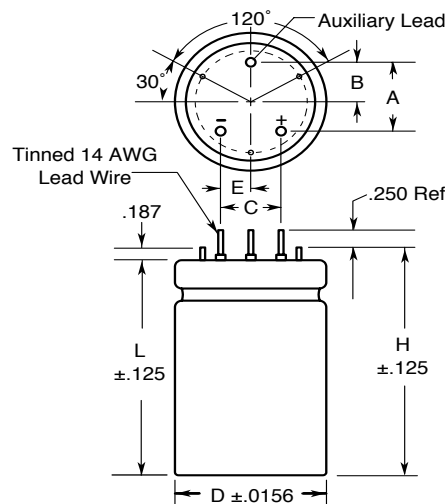


| Can Dia | E | Can Dia | E | Can Dia | E |
|---------|------|---------|------|---------|------|
| 1.375 | .390 | 1.375 | .390 | 1.375 | .390 |
| 1.750 | .453 | 1.750 | .453 | 1.750 | .453 |
| 2.000 | .500 | 2.000 | .500 | 2.000 | .500 |
| 2.500 | .625 | 2.500 | .625 | 2.500 | .625 |
| 3.000 | .750 | 3.000 | .750 | 3.000 | .750 |
| 3.500 | .750 | 3.500 | .750 | 3.500 | .750 |

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 |
|------------------|----------|--------|------------------|------------------|
| 75 WVDC | | | | |
| 1900 | 1.750 | 3.125 | EAF192X075U3C3PL | LP 10-32 |
| 175 WVDC | | | | |
| 30000 | 3.000 | 7.625 | EAF303X175X7L3PN | HP 104-28 |
| 250 WVDC | | | | |
| 550 | 30mm | 42mm | EAF551X250B1L3PB | 2 wire lead |
| 270 WVDC | | | | |
| 330 | 0.875 | 2.500 | EAF331X270L2J3PB | 2 wire lead |
| 275 WVDC | | | | |
| 200 | 1.200 | 1.500 | EAF201X275B1J3PB | 2 wire lead |
| 280 WVDC | | | | |
| 3300 | 2.500 | 2.625 | EAF332X280W2L3PL | LP 10-32 |
| 300 WVDC | | | | |
| 250 | 1.000 | 2.000 | EAF251X300N2O3PR | Radial snap |
| 1300 | 2.000 | 3.625 | EAF132X300V3L3PL | LP 10-32 |
| 1600 | 40mm | 40mm | EAF162X300J1K3PR | Radial snap |
| 1600 | 1.750 | 1.625 | EAF162X300U1L3PR | Radial snap |
| 2900 | 50mm | 50mm | EAF292X300V2O3PT | Solder Eyelet |
| 3300 | 50mm | 100mm | EAF332X300V3S3PT | Solder Eyelet |
| 5500 | 50mm | 100mm | EAF552X300V3S3PK | Solderable Blade |
| 5500 | 50mm | 100mm | EAF552X300V3S3PT | Solder Eyelet |
| 6000 | 50mm | 100mm | EAF602X300V3S3PT | Solder Eyelet |
| 10000 | 3.000 | 5.625 | EAF103R300X5L3PH | HP 10-32 |
| 10000 | 3.000 | 5.875 | EAF103R300X5R3PH | HP 10-32 |

| Capacitance (µF) | Diameter | Length | Part Description | Terminal |
|------------------|----------|--------|------------------|-------------|
| 310 WVDC | | | | |
| 4000 | 2.000 | 3.380 | EAF402X310V3G3PH | HP 10-32 |
| 4000 | 2.000 | 3.625 | EAF402X310V3L3PH | HP 10-32 |
| 315 WVDC | | | | |
| 1850 | 45mm | 49mm | EAF182X315U1S3PR | Radial snap |
| 1925 | 1.375 | 3.125 | EAF192X315R3C3PR | Radial Snap |
| 2000 | 1.375 | 3.125 | EAF202X315R3C3PR | Radial Snap |
| 4000 | 2.000 | 3.380 | EAF402X315V3G3PF | HP 5mm |
| 4000 | 2.000 | 3.380 | EAF402X315V3G3PH | HP 10-32 |
| 320 WVDC | | | | |
| 3500 | 2.000 | 3.625 | EAF352X320V3L3PH | HP 10-32 |
| 5000 | 2.500 | 5.625 | EAF502X320W5L3PF | HP 5mm |
| 18000 | 3.500 | 5.875 | EAF183X320Y5R3PD | LP ¼-28 |
| 20000 | 3.500 | 5.875 | EAF203X320Y5R3PD | LP ¼-28 |
| 330 WVDC | | | | |
| 47 | 0.875 | 1.375 | EAF470X330L1G3PB | 2 wire lead |
| 120 | 0.875 | 1.375 | EAF121X330L1G3PB | 2 wire lead |
| 1300 | 1.000 | 4.375 | EAF132X330N4G3PB | 2 wire lead |
| 2500 | 2.000 | 4.125 | EAF252X330V4C3PH | HP 10-32 |
| 13000 | 3.500 | 5.875 | EAF133X330Y5R3PN | HP 104-28 |
| 335 WVDC | | | | |
| 180 | 0.875 | 1.563 | EAF181X335L1K3PR | Radial snap |
| 180 | 0.875 | 1.875 | EAF181X335L1R3PB | 2 wire lead |
| 340 WVDC | | | | |
| 700 | 1.200 | 3.500 | EAF701X340B3J3PR | Radial snap |
| 1300 | 1.375 | 2.500 | EAF132M340R2J3PB | 2 wire lead |
| 1300 | 1.375 | 2.500 | EAF132X340R2J3PB | 2 wire lead |
| 1400 | 1.200 | 3.375 | EAF142X340B3G3PR | Radial Snap |
| 1400 | 1.200 | 3.500 | EAF142X340B3J3PR | Radial Snap |

| Capacitance (µF) | Diameter | Length | Part Description | Terminal |
|------------------|----------|--------|------------------|----------|
|------------------|----------|--------|------------------|----------|

350 WVDC

| | | | | |
|-------|-------|-------|------------------|---------------|
| 200 | 1.000 | 2.000 | EAF201X350N2O3PR | Radial snap |
| 1000 | 1.375 | 3.125 | EAF102X350R3C3PB | 2 wire lead |
| 1100 | 1.375 | 2.031 | EAF112X350R2A3PT | Solder Eyelet |
| 2500 | 40mm | 90mm | EAF252X350J3J3PR | Radial snap |
| 6000 | 3.000 | 5.625 | EAF602X350X5L3PD | LP ¼-28 |
| 6800 | 3.000 | 5.625 | EAF682X350X5L3PD | LP ¼-28 |
| 10000 | 3.000 | 5.875 | EAF103X350X5R3PD | LP ¼-28 |

360 WVDC

| | | | | |
|------|-------|--------|-------------------|---------------|
| 150 | 0.750 | 2.375 | EAF151X360A2G3PB | 2 wire lead |
| 700 | 1.200 | 3.500 | EAF701X360B3J3PR | Radial snap |
| 835 | 1.750 | 2.063 | EAF8350X360U2B3PT | Solder Eyelet |
| 900 | 1.200 | 2.500 | EAF901X360B2J3PT | Solder Eyelet |
| 1000 | 2.000 | 2.625 | EAF102X360V2L3PG | LP 5mm |
| 1200 | 40mm | 55mm | EAF122X360J2C3PT | Solder Eyelet |
| 1200 | 2.000 | 2.625 | EAF122X360V2L3PG | LP 5mm |
| 1400 | 1.200 | 3.500 | EAF142X360B3J3PR | Radial snap |
| 1400 | 30mm | 90mm | EAF142X360B3J3PR | Radial snap |
| 1500 | 1.375 | 2.750 | EAF152X360R2N3PR | Radial Snap |
| 1500 | 1.375 | 4.625 | EAF152X360R4L3PC | 3 wire lead |
| 1600 | 1.750 | 2.688 | EAF162X360U2M3PT | Solder Eyelet |
| 1600 | 2.000 | 3.625 | EAF162X360V3X3PL | LP 10-32 |
| 1600 | 2.000 | 4.125 | EAF162X360V4C3PL | LP 10-32 |
| 1600 | 2.000 | 4.625 | EAF162X360V4L3PL | LP 10-32 |
| 1700 | 1.750 | 3.125 | EAF172X360U3C3PL | LP 10-32 |
| 1800 | 1.375 | 3.000 | EAF182X360R3O3PB | 2 wire lead |
| 1900 | 1.750 | 2.875 | EAF192X360U2R3PL | LP 10-32 |
| 1900 | 1.750 | 3.125 | EAF192X360U3C3PL | LP 10-32 |
| 1900 | 2.000 | 1.750 | EAF192X360U3C3PL | LP 10-32 |
| 1900 | 1.750 | 3.625 | EAF192X360U3L3PL | LP 10-32 |
| 2000 | 1.375 | 4.625 | EAF202X360R4L3PC | 3 wire lead |
| 2000 | 1.750 | 3.125 | EAF202X360U3C3PH | HP 10-32 |
| 2000 | 1.750 | 3.125 | EAF202X360U3C3PL | LP 10-32 |
| 2000 | 51 mm | 63.5mm | EAF202X360V2J3PU | Solder Lug |
| 2000 | 2.000 | 2.625 | EAF202X360V2L3PU | Solder Lug |

