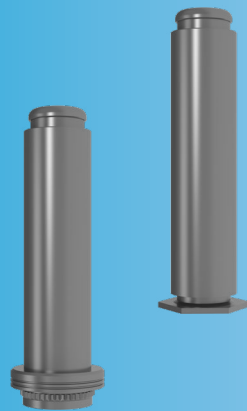


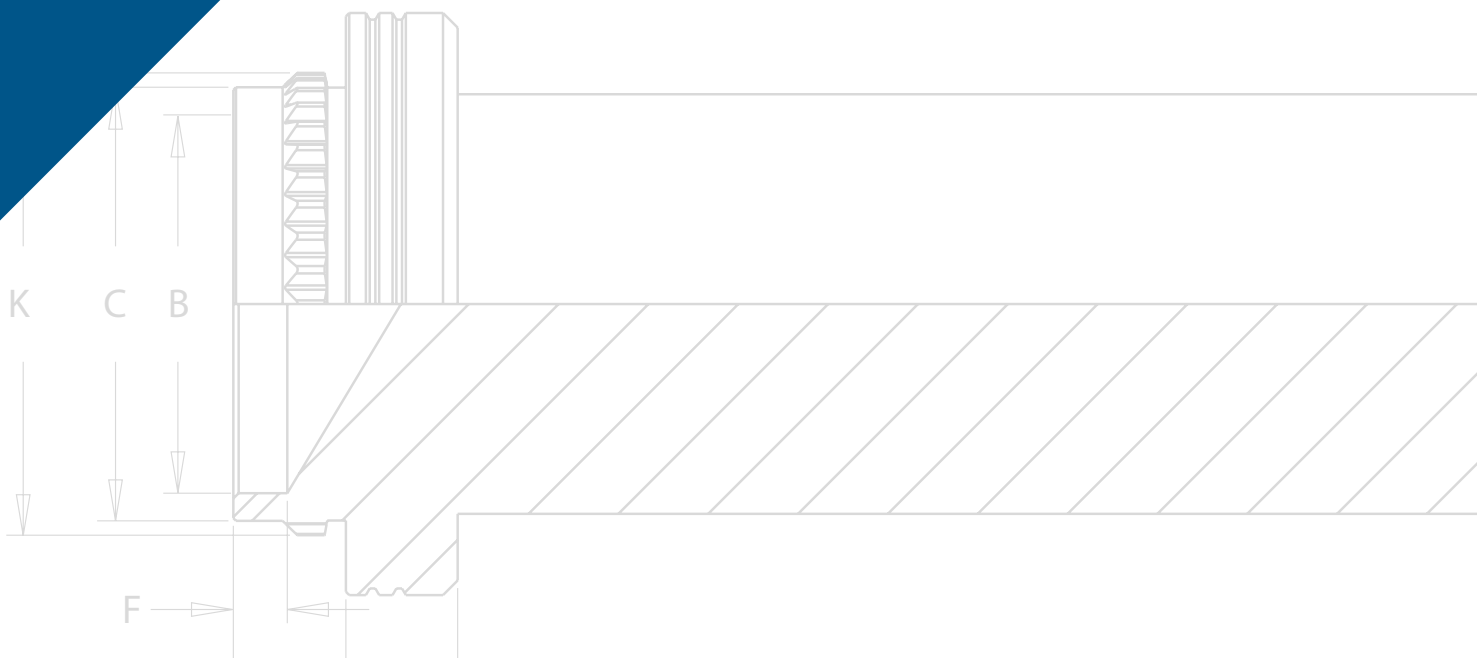


PEM eConnect™ fastening
technology provides superior
electrical connection solutions



EC™

**PEM eConnect™
FASTENERS**

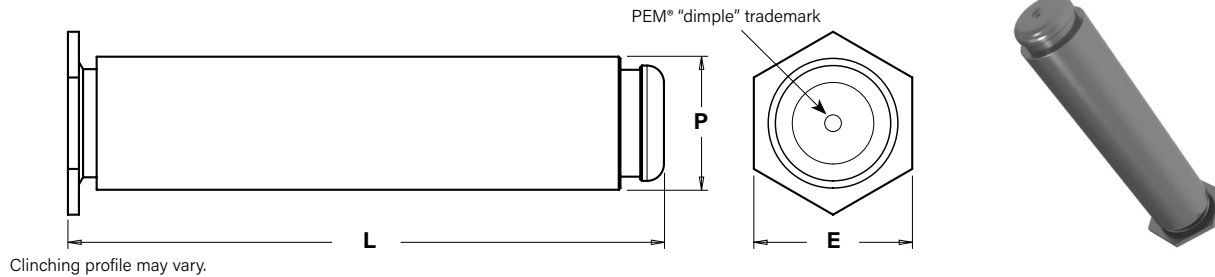


PEM ECONNECT™ PIN FASTENING TECHNOLOGY

PEM eConnect™ current carrying pins provide superior electrical connections in applications that demand superior performance from internal components.

- Joint has an electrical resistance of less than 100 $\mu\Omega$. No hot spots or poor conductivity
- Available in self clinching and broaching mounting styles
- Fully automated installation systems available for an efficient, cost-savings total system solution

EPCRB™ PEM eConnect™ Self-Clinching Pin



| Type | Pin Dia. Code | Pin Length Code | Sheet Thickness | | Hole Size in Sheet +.002" / +0.05mm | | E Nom. | | L ±.012" / ± 0.3mm | | P ±.004" / ±0.1mm | | Min. Dist. Hole C/L to Edge ⁽¹⁾ | |
|-------|---------------|-----------------|-----------------|-------|--|-----|--------|------|-----------------------|------|----------------------|----|--|-----|
| | | | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm |
| EPCRB | 8 | 35.6 | .079 - .158 | 2 - 4 | .389 | 8.1 | .375 | 9.53 | 1.402 | 35.6 | .315 | 8 | .374 | 9.5 |

(1) For more information on proximity to bends and distance to other clinch hardware, see [PEM® Tech Sheet C/L To Edge](#).

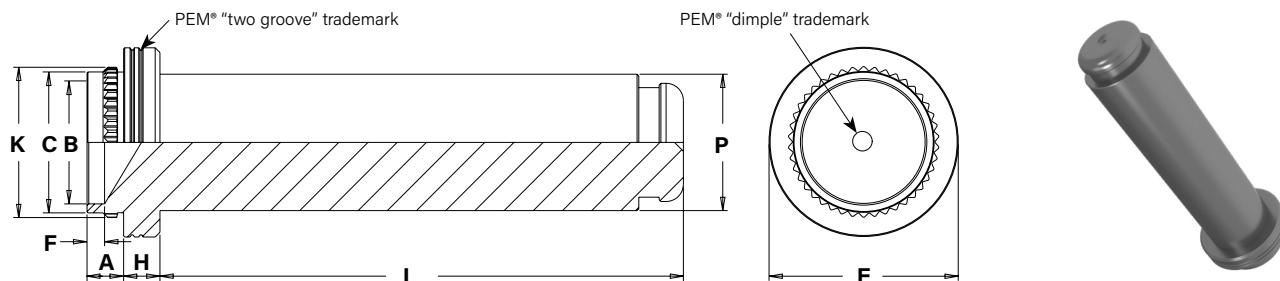
PART NUMBER DESIGNATION

EPCR B - 8 - 35.6 Ag

↓ ↓ ↓ ↓ ↓

Type Material Pin Pin Finish
Code Diameter Length

EPFRB™ PEM eConnect™ Broaching Pin

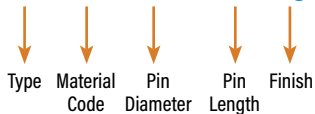


| Type | Pin Dia. Code | Pin Length Code | Sheet Thickness | | Hole Size in Sheet +.002" / +0.05mm | | A Max. | | B ±.003" / ±0.08mm | | C Max. | | E ±.005" / ±0.13mm | | F ±.010" / ±0.25mm | | H ±.0029" / ±0.07mm | | K ±.003" / ±0.08mm | | L ±.007" / ±0.18mm | | P ±.002" / ±0.05mm | | Min. Dist. Hole C/L to Edge ⁽¹⁾ +.005" / -.001" +0.13 / -0.03mm | |
|-------|---------------|-----------------|-----------------|-----------|--|-----|--------|------|-----------------------|------|--------|------|-----------------------|-------|-----------------------|------|------------------------|------|-----------------------|------|-----------------------|------|-----------------------|----|---|-----|
| | | | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm | in. | mm |
| EPFRB | 8 | 30.8 | .049-.065 | 1.24-1.65 | .335 | 8.5 | .058 | 2.18 | .284 | 7.21 | .329 | 8.35 | .437 | 11.09 | .037 | 0.93 | .084 | 2.13 | .350 | 8.89 | 1.209 | 30.8 | .315 | 8 | .346 | 8.8 |

(1) For more information on proximity to bends and distance to other clinch hardware, see [PEM® Tech Sheet C/L To Edge](#).

PART NUMBER DESIGNATION

EPFR B - 8 - 30.8 Ag



MATERIAL AND FINISH SPECIFICATIONS

| | Component Material | Standard Finishes | For Use In | |
|-------------------------------|----------------------|---|---|----------|
| Type | Free Machining Brass | Matte Electroplated Silver per ASTM B700, Type II, Grade A ⁽²⁾ | Sheet Hardness HRB 44 / HB 80 or less ⁽³⁾ | PC Board |
| EPCRB | ▪ | ▪ | ▪ | |
| EPFRB | ▪ | ▪ | | ▪ |
| Part Number Code for Finishes | | Ag | | |

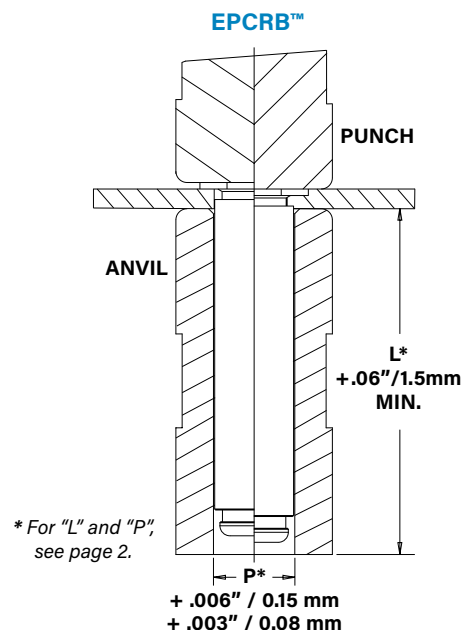
(2) See PEM [Technical Support](#) section of our web site for related plating standards and specifications.

(3) HRB - Hardness Rockwell "B" Scale. HB - Hardness Brinell.

INSTALLATION

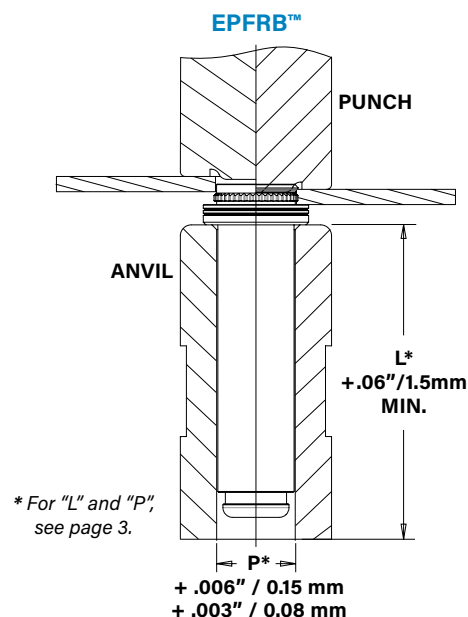
EPCRB™ Self-clinching Pin

1. Prepare properly sized mounting hole in sheet. Do not perform any secondary operations such as deburring.
2. Insert pin through mounting hole (punch side) of sheet and into anvil hole.
3. With punch and anvil surfaces parallel, apply squeezing force to embed the head of the pin flush in the sheet.



EPFRB™ Broaching Pin

1. Prepare properly sized mounting hole in board.
2. Place fastener into the anvil hole and place the mounting hole over the shank of the fastener.
3. Using a punch flaring tool and a recessed anvil, apply squeezing force until the shoulder of the fastener contacts the board. As the fastener seats itself in the proper position, the punch tool will flare the extended portion of the shank outward to complete the installation. The combination of broaching and flaring provides high pushout performance.



Installation Tooling

| UNIFIED | Type | HAEGER® Part Number | | PEMSERTER® Part Number | |
|---------|-------|---------------------|-------------|------------------------|-----------|
| | | Anvil | Punch | Anvil | Punch |
| | EPCRB | 15875-1 | H-108-0020L | 8026712 | 975200048 |
| | EPFRB | 15875-1 | 15875-2 | 8026712 | 8026681 |

Installation Notes

- For best results we recommend using a HAEGER® or PEMSERTER® machine for installation of PEM® self-clinching fasteners. See our [website](#) for more information.
- Visit the [Animation Library](#) on our website to view the installation process.

For Additional HAEGER® and PEMSERTER® Tooling Information / Part Numbers



HAEGER® MANUAL TOOLING CATALOG

HAEGER® AUTO TOOLING CATALOG



Go to haeger.com to access the Auto and Manual Tooling Wizards



Or download the HAEGER WIZZARD Phone App



PEMSERTER® MANUAL TOOLING CATALOG

PEMSERTER® AUTO TOOLING CATALOG

Tooling ▾ Request ▾

- Auto Tooling Wizard
- Manual Tooling Wizard
- Force Chart
- BTM Tooling
- Manual Tooling Catalog

OneTouch 4e XYZ-R

Tooling Wizard

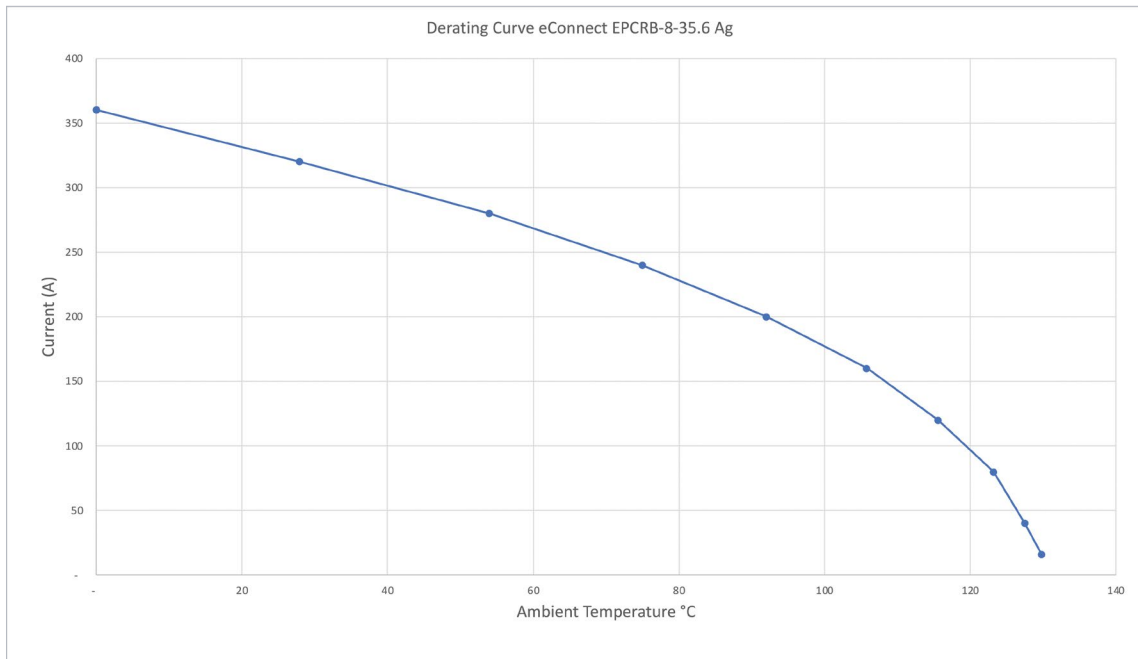
BTM Tooling

PERFORMANCE DATA⁽¹⁾

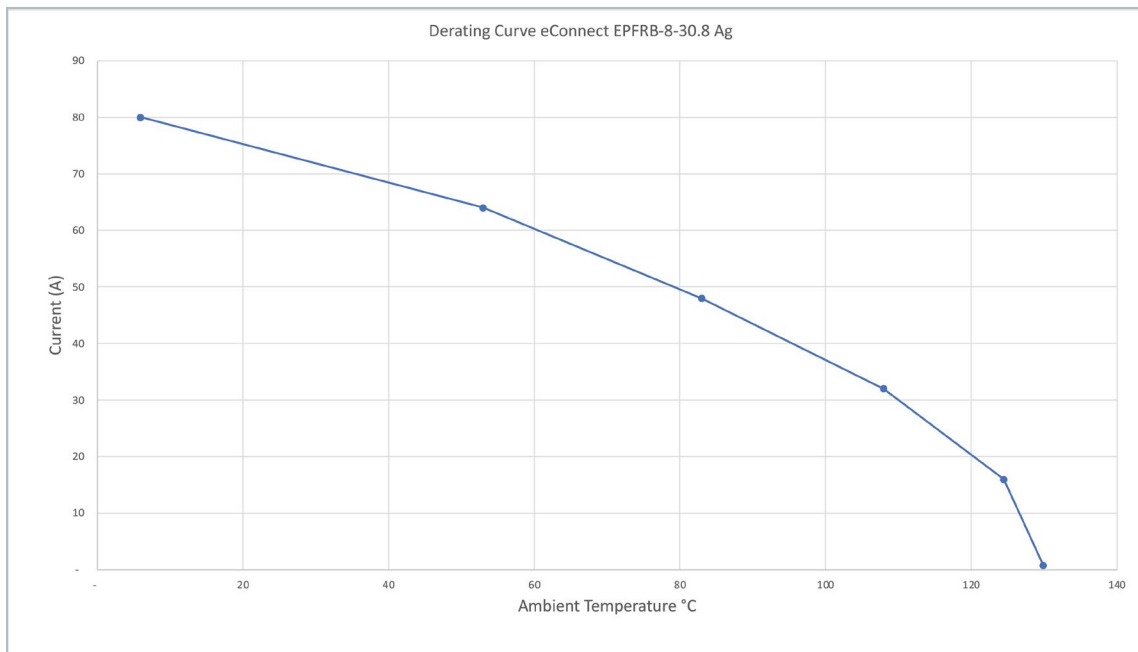
| Type | Test Sheet Material | | | | | | | |
|-------|---------------------|------|---------|------|-----------------|------|---------|-----|
| | C110 Copper HRB 44 | | | | FR-4 Fiberglass | | | |
| | Installation | | Pushout | | Installation | | Pushout | |
| | (lbs.) | (kN) | (lbs.) | (kN) | (lbs.) | (kN) | (lbs.) | (N) |
| EPCRB | 5845 | 26 | 900 | 4 | — | — | — | — |
| EPFRB | — | — | — | — | 1710 | 76 | 169 | 750 |

(1) Published installation forces are for general reference. Actual set-up and confirmation of complete installation should be made by observing proper seating of fastener as described in the installation steps. Other performance values reported are averages when all proper installation parameters and procedures are followed. Variations in mounting hole size, sheet material, and installation procedure may affect performance. Performance testing this product in your application is recommended. We will be happy to provide technical assistance and/or samples for this purpose.

EPCRB™ Derating Curve



EPFRB™ Derating Curve



All PEM® products meet our stringent quality standards. If you require additional industry or other specific [quality certifications](#), special procedures and/or part numbers are required. Please contact your local sales office or representative for further information.

Regulatory [compliance information](#) is available in Technical Support section of our website. Specifications subject to change without notice. See our website for the most current version of this bulletin.

PennEngineering®



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