



# LSZ

## Low Stress Zert

"Low Stress Zert" offers a rounded knurl pattern for use in notch sensitive amorphous plastics. Heat is the recommended method for installation. *Performance values are on page 35.*

### Plastic Materials

- PC / ABS Blends
- PC (Polycarbonate)

### Installation

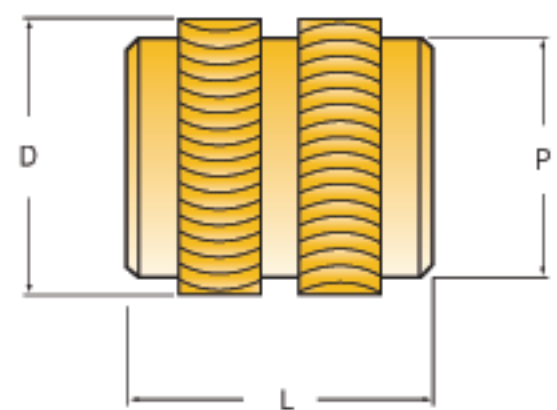
- Heat Transfer: Fully Automated
- Simple Press: Molded-in

### Materials

- Brass
- Aluminum (special order)

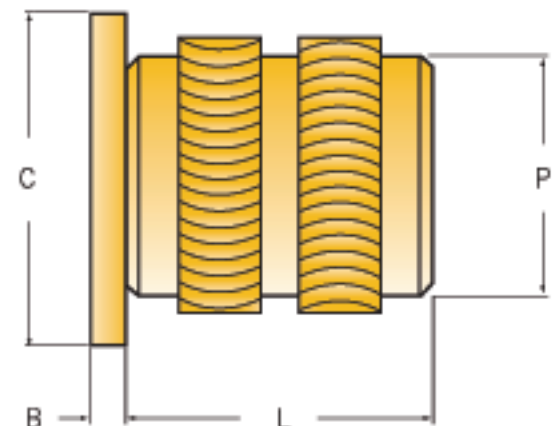
### Insert

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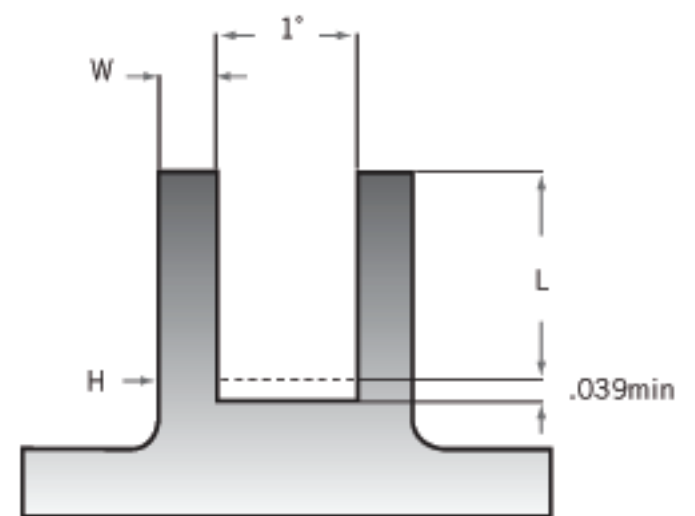
### Headed Insert

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### Boss Design Reference

"Low Stress Zert" is designed to be installed into a straight hole with a maximum of a 1° inclusive taper. Holes should not be counter sunk or counter bored as this will decrease the fasteners performance. The recommended hole size applies at the point reached by the bottom of the insert. Hole size tolerance  $-0.000 + 0.004$  inches. When using heat to install the inserts, the heat should be sufficient to soften the plastic without it melting. This will allow for optimum performance without causing flash or degrading the plastic. Available In Brass. (other materials may be available on request)



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## Low Stress Zert Size Chart

| Inch<br>Thread | L             | D           | P              | B              | C         | H                         | W                   | LSZ              | LSZH              |
|----------------|---------------|-------------|----------------|----------------|-----------|---------------------------|---------------------|------------------|-------------------|
|                | Insert Length | Insert Dia. | Pilot End Dia. | Head Thickness | Head Dia. | Hole Size (+0.004 -0.000) | Min. Wall Thickness | Part Number      | Part Number       |
| 2 - 56         | .155          | .137        | .123           | .020           | .187      | .126                      | .055                | LSZ - 256 - 155  | LSZH - 256 - 155  |
| 4 - 40         | .228          | .174        | .154           | .023           | .217      | .157                      | .071                | LSZ - 440 - 228  | LSZH - 440 - 228  |
| 6 - 32         | .281          | .206        | .185           | .029           | .250      | .189                      | .083                | LSZ - 632 - 281  | LSZH - 632 - 281  |
| 8 - 32         | .320          | .239        | .218           | .035           | .280      | .220                      | .094                | LSZ - 832 - 320  | LSZH - 832 - 320  |
| 10 - 24        | .374          | .270        | .249           | .042           | .312      | .252                      | .110                | LSZ - 1024 - 374 | LSZH - 1024 - 374 |
| 10 - 32        | .374          | .270        | .249           | .042           | .312      | .252                      | .110                | LSZ - 1032 - 374 | LSZH - 1032 - 374 |
| 1/4 - 20       | .500          | .333        | .312           | .052           | .375      | .315                      | .142                | LSZ - 2520 - 500 | LSZH - 2520 - 500 |
| 1/4 - 28       | .500          | .333        | .312           | .052           | .375      | .315                      | .142                | LSZ - 2528 - 500 | LSZH - 2528 - 500 |
| 5/16 - 18      | .500          | .393        | .375           | .052           | .437      | .378                      | .197                | LSZ - 3118 - 500 | LSZH - 3118 - 500 |

(All dimensions in inches)

| Metric<br>Thread | L             | D           | P              | B              | C         | H                       | W                   | LSZ               | LSZH               |
|------------------|---------------|-------------|----------------|----------------|-----------|-------------------------|---------------------|-------------------|--------------------|
|                  | Insert Length | Insert Dia. | Pilot End Dia. | Head Thickness | Head Dia. | Hole Size (+0.10 -0.00) | Min. Wall Thickness | Part Number       | Part Number        |
| M2               | 3.94          | 3.48        | 3.12           | 0.51           | 4.75      | 3.20                    | 1.40                | LSZ - M2 - 3.94   | LSZH - M2 - 3.94   |
| M2.5             | 5.79          | 4.42        | 3.91           | 0.58           | 5.51      | 4.00                    | 1.80                | LSZ - M2.5 - 5.79 | LSZH - M2.5 - 5.79 |
| M3               | 5.79          | 4.42        | 3.91           | 0.58           | 5.51      | 4.00                    | 1.80                | LSZ - M3 - 5.79   | LSZH - M3 - 5.79   |
| M3.5             | 7.14          | 5.23        | 4.70           | 0.74           | 6.35      | 4.80                    | 2.11                | LSZ - M3.5 - 7.14 | LSZH - M3.5 - 7.14 |
| M4               | 8.13          | 6.07        | 5.54           | 0.89           | 7.11      | 5.60                    | 2.39                | LSZ - M4 - 8.13   | LSZH - M4 - 8.13   |
| M5               | 9.50          | 6.86        | 6.32           | 1.07           | 7.92      | 6.40                    | 2.79                | LSZ - M5 - 9.50   | LSZH - M5 - 9.50   |
| M6               | 12.7          | 8.46        | 7.92           | 1.32           | 9.53      | 8.00                    | 3.61                | LSZ - M6 - 12.70  | LSZH - M6 - 12.70  |
| M8               | 12.7          | 9.98        | 9.53           | 1.32           | 11.10     | 9.60                    | 5.00                | LSZ - M8 - 12.70  | LSZH - M8 - 12.70  |

\* Add "AL" to the end of the part number for Aluminum  
ex: LSZ-M3-5.79-AL

(All dimensions in millimeters)

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