



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

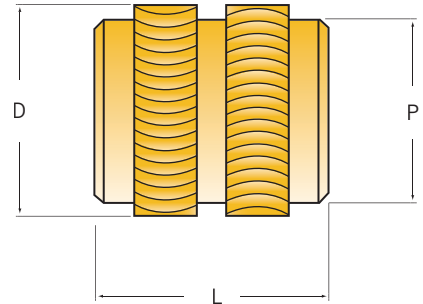
- Heat Transfer Fully Automated
- Simple Press Molded-in

Materials

- Brass
- Aluminum (special order)

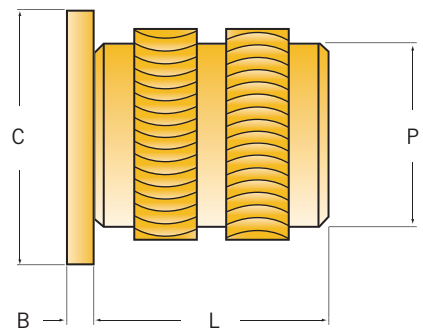
Insert

LSZ



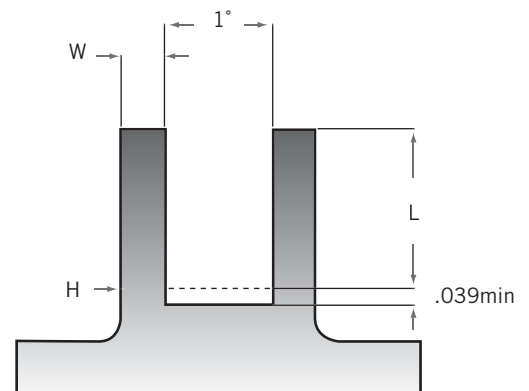
Headed Insert

LSZH



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)



Low Stress Zert Size Chart

Inch	Thread	L Insert Length	D Insert Dia.	P Pilot End Dia.	B Head Thickness	C Head Dia.	H Hole Size (+.004 -.000)	W Min. Wall Thickness	LSZ Part Number	LSZH 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	Thread	L Insert Length	D Insert Dia.	P Pilot End Dia.	B Head Thickness	C Head Dia.	H Hole Size (+0.10 -0.00)	W Min. Wall Thickness	LSZ Part Number	LSZH 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)