MSOFS™ microPEM® Flaring Standoffs

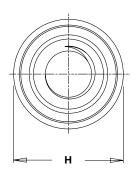
Ideal miniature fastener solution to attach components in compact electronic assemblies

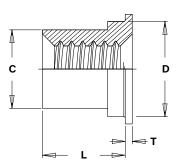
- New MSOFS™ microPEM® flaring standoffs attach permanently in panels as thin as .008"/0.2 mm of any hardness, including stainless steel.
- Can be installed into any type of panel, including metal, plastic and P.C. Board.
- Flaring feature allows for installation into multiple panels.
- Small footprint allows for reduced centerline-to-edge designs.
- Threads as small as #0-80/M1.

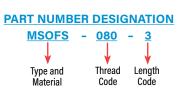












All dimensions are in inches.

ED	Thread Size	Туре	Thread Code	Length Code	Sheet Thickness	Hole Size in Sheet +.002000	C Max.	D Max.	H Nom.	L +.002003	T ±.002	Min. Dist. Hole ⊈ to Edge
H I	.060-80 (#0-80) ⁽¹⁾	MSOFS	080	3 4	.008012	.118	.094	.117	.138	.093 .125	.010	.069
0	.086-56 (#2-56) ⁽¹⁾	MSOFS	256	3 4	.008012	.138	.113	.137	.157	.093 .125	.010	.079

All dimensions are in millimeters.

	Thread Size x Pitch	Туре	Thread Code	Length Code	Sheet Thickness	Hole Size in Sheet +0.05	C Max.	D Max.	H Nom.	L +0.05 -0.08	T ±0.05	Min. Dist. Hole ⊈ to Edge
ပ	M1 x 0.25 ⁽²⁾	MSOFS	M1	3	0.2 - 0.3	3	2.39	2.97	3.35	2 3	0.25	1.75
TRI	M1.2 x 0.25 ⁽²⁾	MSOFS	M1.2	3	0.2 - 0.3	3	2.39	2.97	3.35	2 3	0.25	1.75
M	M1.4 x 0.3 ⁽³⁾	MSOFS	M1.4	3	0.2 - 0.3	3	2.39	2.97	3.35	2 3	0.25	1.75
	M1.6 x 0.35 ⁽⁴⁾	MSOFS	M1.6	3	0.2 - 0.3	3.5	2.87	3.48	4	2 3	0.25	2
	M2 x 0.4 ⁽⁴⁾	MSOFS	M2	3	0.2 - 0.3	3.5	2.87	3.48	4	2	0.25	2

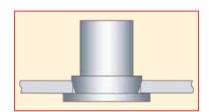
Threads: (1) Internal, ASME B1.1, 2B

(2) Metric ISO 68-1, 5H (3) Metric ISO 68-1, 6H (4) Metric ASME B1.13M, 6H

Material: 300 series stainless steel

Standard Finish: Passivated and/or tested per ASTM A380

For use in: Any panel hardness



 $MSOFS^{\mathrm{m}}$ standoff installed.

Fastener drawings and models are available at www.pemnet.com



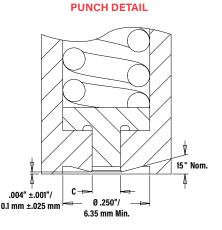
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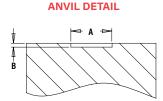
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INSTALLATION

- 1. Prepare properly sized mounting hole in sheet. Do not perform any secondary operations such as deburring.
- 2. Place the standoff into anvil recess and place the mounting hole over the standoff as shown in the drawing.
- 3. Using a punch flaring tool and a recessed anvil, apply squeezing force until punch contacts the sheet.

BEFORE AFTER Punch Anvil





INSTALLATION NOTES

- For best results we recommend using a PEMSERTER® press for installation of PEM selfclinching fasteners. Please check our website for more information.
- Visit the Animation Library on our website to view the installation process for select products

PEMSERTER® Installation Tooling

		Thread	Punch Dimensions (in.)		Anvil Dime		
ı	FIED	Code	C +.001	Punch Part Number	A ±.001	B ±.001	Anvil Part Number
	Ξ	080	.095	8020712	.143	.006	8019720
L	-	256	.114	8020710	.163	.006	8019722

	Thread	Punch Dimensions (mm)		Anvil Dimensions (mm)		
ပ	Code	C +0.025	Punch Part Number	A ±.025	B ±.025	Anvil Part Number
R	M1	2.41	8020712	3.64	0.15	8019720
ΕT	M1.2	2.41	8020712	3.64	0.15	8019720
Σ	M1.4	2.41	8020712	3.64	0.15	8019720
	M1.6	2.9	8020710	4.14	0.15	8019722
	M2	2.9	8020710	4.14	0.15	8019722

PERFORMANCE DATA(1)

	Thread	Max. Rec.	Test Sheet Material					
۵		Tightening Torque For	.008" 300 Series Stainless Steel					
NIFIE	Code	Mating Screw (in. lbs.)	Installation (lbs.)	Pushout (lbs.)	Torque-out (in.lbs.)			
	080	.65	1500	69.8	1.29			
	256	1.3	1800	91.2	1.29			

		Max. Rec. Tightening	Test Sheet Material 0.2 mm 300 Series Stainless Steel					
	Thread	Torque For						
TRIC	Code	Mating Screw (N-m)	Installation (kN)	Pushout (N)	Torque-out (N-m)			
Ë	M1	0.019	6.67	311	0.146			
M	M1.2	0.036	6.67	311	0.146			
_	M1.4	0.057	6.67	311	0.146			
	M1.6	0.084	8	406	0.146			
	M2	0.175	8	406	0.146			

(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.

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





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