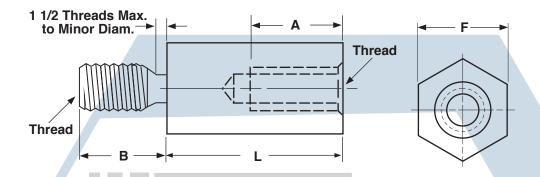
Electronic Hardware

METRIC



HEXAGON AND ROUND MALE-FEMALE STANDOFFS										
F		В	L	Α	F		В	L	Α	
Width Across the Flats	Thread Size	Male Thread Length ± 0.01	Body Length	Full Thread Depth	Width Across the Flats	Thread Size	Male Thread Length ± 0.01	Body Length	Full Thread Depth	
				Min					Min	
4.5 mm	M2.5x0.45	3.97	5	1.9	6 mm	M3x0.5	4.76	9	5.8	
4.5 mm	M2.5x0.45	3.97	6	2.9	6 mm	M3x0.5	4.76	all longer sizes	6.4	
4.5 mm	M2.5x0.45	3.97	7	3.9	6 mm	M4x.07	9.53	6	2.1	
4.5 mm	M2.5x0.45	3.97	all longer sizes	4.8	6 mm	M4x.07	9.53	7	3.1	
4.5 mm	M3x0.5	4.76	5	1.8	6 mm	M4x.07	9.53	8	4.1	
4.5 mm	M3x0.5	4.76	6	2.8	6 mm	M4x.07	9.53	9	5.1	
4.5 mm	M3x0.5	4.76	7	3.8	6 mm	M4x.07	9.53	10	6.1	
4.5 mm	M3x0.5	4.76	8	4.8	6 mm	M4x.07	9.53	11	7.1	
4.5 mm	M3x0.5	4.76	9	5.8	6 mm	M4x.07	9.53	12	8.1	
4.5 mm	M3x0.5	4.76	all longer sizes	6.4	6 mm	M4x.07	9.53	13	9.1	
6 mm	M3x0.5	4.76	5	1.8	6 mm	M4x.07	9.53	14	10.1	
6 mm	M3x0.5	4.76	6	2.8	6 mm	M4x.07	9.53	15	11.1	
6 mm	M3x0.5	4.76	7	3.8	6 mm	M4x.07	9.53	all longer sizes	11.1	
6 mm	M3x0.5	4.76	8	4.8						
Tolerance on Length					All materi	als: ±.010				

Description	A hex shaped, mechanical device which has an opening with a partial internal thread at one end, and an externally threaded post at the opposite end. It is used to hold two components at a given distance from each other.
Applications/ Advantages	Male-female standoffs are used when one of the components is internally threaded. Aluminum is popular for its light weight/ strength compromise. It is non-magnetic, performs well in severe temperatures, and has insulating properties. Stainless is conductive, non-magnetic and has superior resistance to corrosion and chemical fumes. It is costlier than aluminum.
Material	Aluminum: 6061 Aluminum (Magnesium: 0.8 - 1.2%; Copper: 0.15 - 0.40%; Silicon: 0.4 - 0.8%; Iron: 0.7% maximum; Zinc: 0.25% maximum; Titanium: 0.15% maximum; Manganese: 0.15% maximum; Chromium: 0.04 - 0.35%) Stainless: Type 303 stainless, passivated