

PUSH- AND SCREW-MOUNT SUPPORTS/SPACERS

Tension-Retaining Push-Mount Supports/Spacers

- Designed for chassis-to-board applications.
- Non-locking end of support firmly retains PC board.

T Series



Locking Push-Mount Supports/Spacers

- Designed for chassis-to-board applications.
- Board locking end, with barb-strengthening ribs, anchors board securely.
- Both locking ends allow mounting in any orientation.
- Head base, with molded-in hole-centering shoulders and board thickness compensators, acts as a shelf for the board for secure support.
- Barb strengthening ribs flex for easy insertion and removal, yet lock securely.
- Molded-in location guides center head in chassis hole for secure locking of both barbs.
- One-piece injection molding assures strength and durability.
- Spring-arm chassis thickness compensators provide firm anchoring of the PCB support on chassis.

L Series



Double-Locking Push-Mount Supports/Spacers

- Locking barbs on both ends hold boards tightly in any orientation.
- Designed for secure board-to-board applications.

DL Series



Tension-Style Locking-Head Supports/Spacers

- Tension-style locking-head releases easily by depressing locking mechanism inside head.
- Locking end holds securely to board or chassis.

S-TL Series



Screw-Mount Supports/Spacers

- Can be used in both chassis-to-board and board-to-board applications.
- Wide base and screw mounting provides extra secure support.
- Small self-locking board end conserves valuable PC board area.

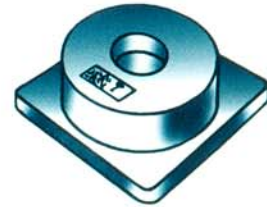
SMS Series



Hole Adapters

- Serves as "instant holes" where holes cannot be drilled, or where screws are not desirable.
- Provides a base mounting hole for any All-States push-mount PCB support/spacer.
- Adhesive backing adheres tightly to panels, cabinets and most other smooth, dry surfaces.

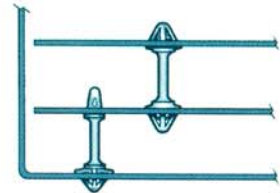
APA Series



Applications

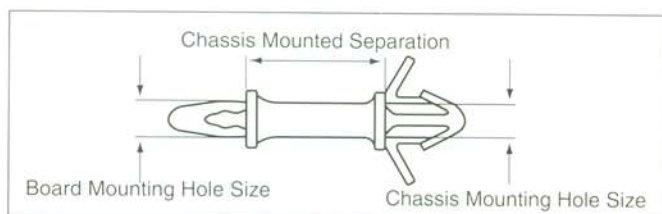
Double-locking Series Push-Mount Supports/Spacers

- Designed with locking barbs on each end for board-to-board applications with locking barbs on each end.
- PC boards sit firmly on the non-locking barbs on each end.
- Chassis end locks to assure firm mounting.



Compliances

The basic and modified Type 66 nylons used in All-States printed circuit board supports/spacers meet UL94V-2 Flammability Classification. Fire-retardant Type 66 nylon meets UL94V-0 Flammability Classification. All push-mount, nylon printed circuit board supports/spacers are recognized under the Component Program of Underwriters Laboratories, Inc. for use at temperatures not exceeding the following: V-2 nylon, 85° C (185° F); V-0, fire-retardant nylon, 95° C (203° F). Nylon push-mount adapters (APA Series) with acrylic-based, adhesive-backed bases (special order) are recognized under the Component Program of Underwriters Laboratories, Inc. for use at temperatures not exceeding 85° C (185° F). For detailed specifications, technical data and other information on materials, see the Materials Section. For further information on UL and other test data, see the Testing & Compliances Section. U.S. patent numbers 4,143,577 (printed circuit board supports/spacers) and 4,567,546 (hole adapters) and foreign patents apply to these products.



Ordering Information

Materials: Factory-stocked printed circuit board supports/spacers and push-mount adapters are available in Type 66 nylon in natural; rubber-based adhesive is standard on push-mount adapters. On special order, push-mount printed circuit board supports/spacers are available in fire-retardant Type 66 nylon; push-mount adapters are available with acrylic-based adhesive.

Chassis-to-Board, Push Mount

Board Tension-Style ①	Board Locking-Style ①	Locking Tension-Style Head	Mounted Separation		Chassis Mounting Hole Size		Board Mounting Hole Size	
			In.	(mm)	In.	(mm)	In.	(mm)
S-3T	S-3L	S-3TL	.19	(4.8)	.19	(4.8)	.16	(4.1)
S-4T	S-4L	S-4TL	.25	(6.4)	.19	(4.8)	.16	(4.1)
S-6T	S-6L	S-6TL	.38	(9.7)	.19	(4.8)	.16	(4.1)
S-7T	S-7L	S-7TL	.44	(11.2)	.19	(4.8)	.16	(4.1)
S-8T	S-8L	S-8TL	.50	(12.7)	.19	(4.8)	.16	(4.1)
S-10T	S-10L	S-10TL	.63	(16.0)	.19	(4.8)	.16	(4.1)
S-12T	S-12L	S-12TL	.75	(19.1)	.19	(4.8)	.16	(4.1)
S-14T	S-14L	S-14TL	.88	(22.4)	.19	(4.8)	.16	(4.1)
S-16T	S-16L	S-16TL	1.00	(25.4)	.19	(4.8)	.16	(4.1)
S-18T	S-18L	S-18TL	1.13	(28.7)	.19	(4.8)	.16	(4.1)
S-20T	S-20L	S-20TL	1.25	(31.8)	.19	(4.8)	.16	(4.1)
S-22T	S-22L	S-22TL	1.38	(35.1)	.19	(4.8)	.16	(4.1)

Board-to-Board Supports or Spacers, Push Mount

Board Locking Style	Mounted Separation		Both Mounting Hole Sizes	
	In.	(mm)	In.	(mm)
S-3DL	.16	(4.1)	.16	(4.1)
S-4DL	.22	(5.6)	.16	(4.1)
S-6DL	.34	(8.6)	.16	(4.1)
S-7DL	.41	(10.4)	.16	(4.1)
S-8DL	.47	(11.9)	.16	(4.1)
S-10DL	.59	(15.0)	.16	(4.1)
S-12DL	.72	(18.3)	.16	(4.1)
S-14DL	.84	(21.3)	.16	(4.1)
S-16DL	.97	(24.6)	.16	(4.1)
S-18DL	1.09	(27.7)	.16	(4.1)
S-20DL	1.22	(31.0)	.16	(4.1)
S-22DL	1.34	(34.0)	.16	(4.1)

Chassis-to-Board Supports, Screw Mount

Board Locking Style	Mounting Separation		Chassis Hole Size	Both Mounting Hole Sizes	
	In.	(mm)		In.	(mm)
SMS-4L	.25	(6.4)	No. 4 or 6 Screw	.16	(4.1)
SMS-6L	.38	(9.7)	No. 4 or 6 Screw	.16	(4.1)
SMS-8L	.50	(12.7)	No. 4 or 6 Screw	.16	(4.1)

Push-Mount Adapters, Adhesive-Backed Base (Rubber-Based Adhesive)

Model No.	Base Dimension		Overall Height		Hole Size	
	In.	(mm)	In.	(mm)	In.	(mm)
APA-0	.75 x .75	(19 x 19)	.44	(11.2)	.25	(6.4)
APA-1	.75 x .75	(19 x 19)	.25	(6.4)	.19	(4.8)
APA-2	.75 x .75	(19 x 19)	.38	(9.7)	.16	(4.1)

① UL recognized component.