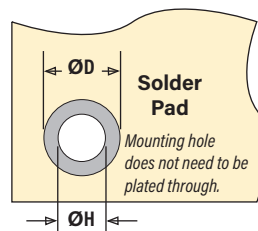
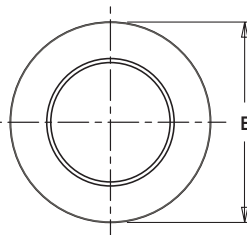
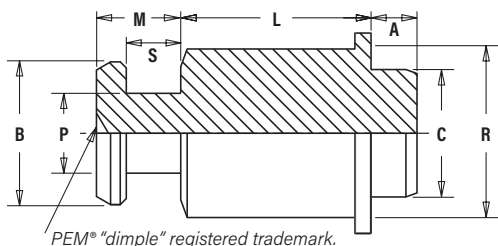


PEM® surface mounted standoffs that eliminate the need for attaching screws

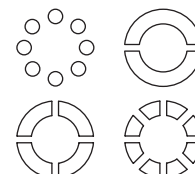
PEM® SMTSK™ standoffs are designed so that a PC board or panel can be quickly slipped into place and then removed from an assembly by simply sliding the board sideways and lifting it off. These standoffs mount on PC Boards in the same manner and at the same time as other surface mount components prior to the automated reflow solder process.

- Reduces scrap, handling and risk of board damage.
- Unique barrel design allows for quick attachment and detachment.
- Makes horizontal or vertical component mounting possible.
- Provided on tape and reel compatible with existing SMT automated installation equipment.

NEW



Stencil Masking Examples



All dimensions are in inches.

UNIFIED	Type	Body Size - Sheet Code	Length "L" ± .005 (Length Code in 32nds of an inch)			Min. Sheet Thickness	A Max.	C Max.	E ±.005	B ±.003	P ±.003	R Max.	S ±.003	M Max.	ØH Hole Size in Sheet +.003 -.000	ØD Min. Solder Pad
			.125	.250	.375											
SMTSK	6060	4	8	12	.060	.060	.161	.250	.177	.099	.212	.068	.108	.166	.276	

All dimensions are in millimeters.

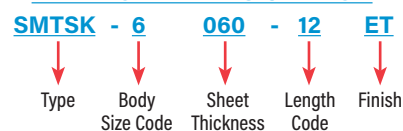
METRIC	Type	Body Size - Sheet Code	Length "L" ± 0.13 (Length Code in millimeters)					Min. Sheet Thickness	A Max.	C Max.	E ±0.13	B ±0.08	P ±0.08	R Max.	S ±0.08	M Max.	ØH Hole Size in Sheet +0.08	ØD Min. Solder Pad
			3	4	6	8	10											
SMTSK	61.5	3	4	6	8	10	1.53	1.53	4.09	6.35	4.5	2.51	5.39	1.73	2.75	4.22	7	

Fastener Material: Carbon Steel

Standard Finish: Electro-plated tin ASTM B 545, Class B with clear preservative coating, annealed(1)(2)

For use in: PC Board

PART NUMBER DESIGNATION



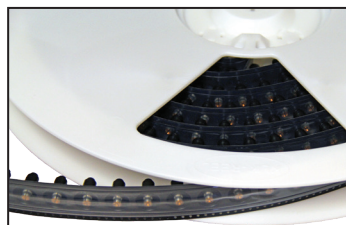
(1) See PEM® Technical Support section of our website for related plating standards and specifications.

(2) Optimal solderability life noted on package.

NUMBER OF PARTS PER REEL

Part Number	Length Code "L"		
	.125	.250	.375
SMTSK-6060	4	8	12
	630	440	230

Part Number	Length Code "L"				
	3	4	6	8	10
SMTSK-61.5	640	540	440	260	220



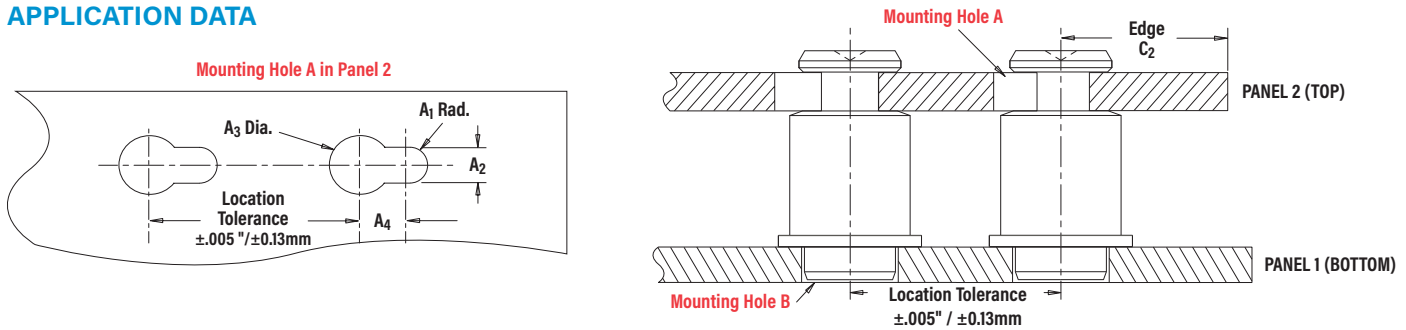
Packaged on 13" recyclable reels. Tape width is 24mm and 16mm. Pitch is 16mm and 12mm. Reels conform to EIA-481.



SMTSK™ REELFAST® KEYHOLE® STANDOFFS

PEM® surface mounted standoffs that eliminate the need for attaching screws

APPLICATION DATA



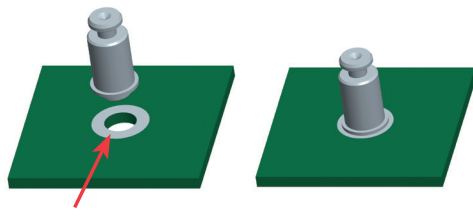
All dimensions are in inches.

UNIFIED	Panel 1						Panel 2						
	Type	Hardness Max.	Bottom Mounting Hole B +.003 -.000	Panel Material	Thickness Min.	Location Tolerance	Top Mounting Hole A				Panel Material	Thickness Range	Edge Distance C ₂ Min.
							A ₁ Nom.	A ₂ ±.003	A ₃ ±.003	A ₄ Min.			
SMTSK	No Limit	.166	PC Board	.060	±.005	.059	.118	.197	.148	ANY	.057 - .064	.160	

All dimensions are in millimeters.

METRIC	Panel 1						Panel 2						
	Type	Hardness Max.	Bottom Mounting Hole B +0.08	Panel Material	Thickness Min.	Location Tolerance	Top Mounting Hole A				Panel Material	Thickness Range	Edge Distance C ₂ Min.
							A ₁ Nom.	A ₂ ±0.08	A ₃ ±0.08	A ₄ Min.			
SMTSK	No Limit	4.22	PC Board	1.53	±0.13	1.5	3	5	3.75	ANY	1.45 - 1.62	4.1	

INSTALLATION



Solder paste applied to pad on PCB.

Solder fastener in place using standard surface mount techniques.

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



PERFORMANCE DATA⁽¹⁾

Type and Size	Panel 1 (Bottom)	
	Test Sheet Material	Pushout ⁽²⁾
SMTSK-6060	.062" Single Layer FR-4	113 lbs.
SMTSK-61.5	1.58 mm Single Layer FR-4	500 N

⁽¹⁾ Further testing details can be found in our website's literature section.

⁽²⁾ With lead-free paste. Average values of 30 test points. The data presented here is for general comparison purposes only. Actual performance is dependent upon application variables. We will be happy to provide samples for you to install. If required, we can also test your installed hardware and provide you with the performance data specific to your application.

TESTING CONDITIONS

Oven	Quad ZCR convection oven with 4 zones	Vias	None
High Temp	473° F / 245° C	Spokes	2 Spoke Pattern
Board Finish	62% Sn, 38% Pb	Paste	Alpha CVP-390 Sn96.5/3.0Ag/0.5Cu (SAC305)
Board	.062" / 1.58 mm thick, Single Layer FR-4	Stencil	.0067" / 0.17 mm thick
Screen Printer	Ragin Manual Printer		

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 most current version of this bulletin.

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