



Product Facts

- Full line of PCB tabs and receptacles
- Straight and right angle tabs available in .250, .187 and .110 series
- Receptacles produced in .250/.205 x .032 or .025. Standard or low insertion force receptacles available.
- Strip product for automatic insertion
- Compatible with industry insertion equipment or full line of equipment available from Tyco Electronics

FASTON Printed Circuit Board Tabs and Receptacles



Tyco Electronics now offers a complete line of Printed Circuit Board tabs and receptacles. Tyco Electronics PCB product can be found in switches and on control boards around the world. Our product offering includes .250, .187 and .110 series vertical tabs, .250 and .187 right angle tabs and .250/.205 vertical receptacles. Product is available in loose piece and strip form. In a short time, our product offering has grown from a handful of part numbers to over four dozen salable parts. We continue to add to our product family as design changes, innovation and customers' requirements expand.

Insertion equipment is available for our entire strip product. The semi-automatic, air-powered Modular Insertion System (MIS) Bench machine is available for customers with moderate insertion requirements. The compact, fully automatic Comp-U-Sertor II machine is available for applications where larger volumes will be inserted and where programmable, microprocessor controlled equipment is desired. Insertion heads for both pieces of equipment are interchangeable, requiring less equipment investment. Tyco Electronics will also custom build a complete "pass through" system for high-end customer applications.

The Tyco Electronics product has been designed to be compatible with industry insertion equipment. In many cases, this product will work as a "drop in" replacement for existing product. In some cases, slight modifications or minor tooling changes are necessary. Please consult Technical Support or the Global Applications Tooling Group for more details.

Tyco Electronics is one of the only companies that offers printed circuit board tabs and receptacles as well as the crimp to wire receptacles and tabs that offer a complete solution for your packaging needs.

Printed Circuit Board Tabs and Receptacles

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Catalog 82004 Revised 7-06 www.tycoelectronics.com Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 52-55-1106-0800 C. America: 57-1-254-4444





250 Series Printed Circuit Board Tabs

Stock Thickness — .032 [0.81] Board Hole Size — .055 ± .002 [1.40 ± 0.05] Dia.

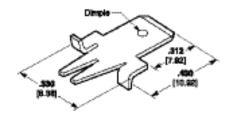


FASTON Printed Circuit Board Tabs and Receptacles (Continued)

	Dime	nsions		Material	8)	A	Terminal	Part No.
W Piece ¹	L	K	E	and Finish	.RL	()	Strip ²	Loos
	.502 12.75	.125 3.18	.312 7.92	Tin Plated Brass	Х	х	63839-1 ³	_
.312 7.92	.547 13.89	.157 3.99	.312 7.92	Tin Plated Brass	Х	х	63986-1	_
	.552 14.02	.150 3.81	.312 7.92	Tin Plated Brass	_	_	1217566-1	_
.295	.622	.125	.312	Tin Dista d Dassa	Х	Х	—	62409-1 ³
7.49	15.80	3.18	7.92	Tin Plated Brass	_	_	_	1217056-1
	.487 12.37	.125 3.18	.312 7.92	Tin Plated Brass	Х	х	62650-1 ³	_
.280 7.11	.532 13.51	.175 4.45	.312 7.92	Tin Plated Brass	Х	х	63650-1 ³	_
	.622	.125	.452	Tin Plated Brass	Х	Х	—	63900-1
	15.80	3.18	11.48	TIN Plated Brass	_	_	63755-1 ³	_

¹ Board Hole Size:.060/.053 [1.52/1.35] Dia. ² Insertion equipment available.

Stock Thickness — .032 [0.81] Board Hole Size — .100 ± .002 [2.54 ± 0.05] Dia.



-	Material	81		Termi	inal Part No.
	and Finish	374	S₽ ª	Strip ¹	Loose Piece
	Tin Plated Brass	Х	Х	63066-1	63067-1

¹ Insertion equipment available.

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South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: 44-208-420-8341

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250 Series Printed Circuit Board Tabs (Continued)

Stock Thickness — .032 [0.81] Board Hole Size — .055 ± .002 [1.40 ± 0.05] Dia.

FASTON Printed Circuit Board Tabs and Receptacles (Continued)

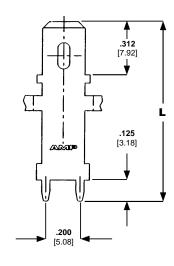


	Dimension	s	Material	8)	A	Termin	al Part No.
L	K	E	and Finish	.R 1	() -	Strip ¹	Loose Piece
.552	.150	.312	Tin Plated Brass	Х	Х	63862-1 ²	_
14.02	3.81	7.92	TIN Plated Brass	Х	Х	63824-1	63849-1
.582	.180	.312	Tin Plated Brass	Х	Х	1217136-1	_
14.78	4.57	7.92		_	_	_	1217421-1
.650 16.51	.150 3.81	.410 10.41	Tin Plated Brass	х	х	1217126-1 ²	_
.710 18.03	.150 3.81	.470 11.94	Tin Plated Brass	_	_	1217125-1	1217169-1
.780	.150	.540	Tin Plated Brass	_	_	1217127-1	_
26.18	3.81	13.72	Tin Tialed Diass	Х	Х	_	1217167-1

¹ Insertion equipment available.

² Dimple.

Stock Thickness — .032 [0.81] Board Hole Size — .055 ± .002 [1.40 ± 0.05] Dia.



Dimension L	Material and Finish	.R 1	()	Terminal Part No.
1.062 26.97	Tin Plated Brass	Х	х	63949-1
1.207 30.66	Tin Plated Brass	Х	Х	63950-1

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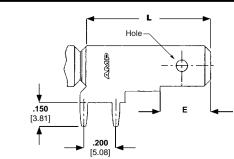




250 Series Printed Circuit Board Tabs (Continued)

Right Angle Printed Circuit Board Tab **Stock Thickness** — .032 [0.81] Board Hole Size -.055 ± .002 [1.40 ± 0.05] Dia.



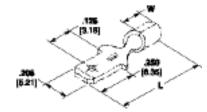


Dimensions		Material	8/	()	Terminal Part No.		
E	L	and Finish	.	Q.	Strip ¹	Loose Piece	
.312 7.92	.800 20.32	Tin Plated Brass	Х	х	63951-1	1217754-1	
.358 9.09	.630 16.00	Tin Plated Brass	_	_	928814-1	_	
.738 18.74	1.00 25.40	Tin Plated Brass	_	_	63952-1	_	

¹ Insertion equipment available.

205 Series **Printed Circuit Board Only**

Stock Thickness — .020 [0.51] Board Hole Size -.100 - .095 [2.54 - 2.41] Dia.

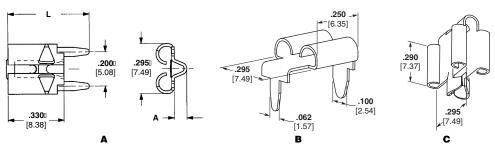


Dimensions		Material	81	A	Terminal	
L	W	and Finish	1	()	Part No.	
.525 13.34	.070 1.78	Tin Plated Brass	Х	х	62411-1 ¹	
.545 13.84	.160 4.06	Tin Plated Brass	х	Х	60284-2 ¹	

¹ Loose piece only.

.250/.205 Printed Circuit **Board Receptacle**

Stock Thickness — .016 [0.41]



04-1-	Fits	Dime	nsions	Material	8)		Pa	rt No.
Style	Tab	A	L	and Finish	"F .)	(P)	Strip	Loose Piece
	.032 0.81 (LIF)	.075 1.91	.480 12.19	Tin Plated Brass	_	_	63968-1	_
	.032 0.81	.075 1.91	.480 12.19	Tin Plated Brass	_	_	63969-1	1217080-1
А	.025 0.64 (LIF)	.075 1.91	.480 12.19	Tin Plated Brass	_	_	63994-1	_
	.025	.025 .075	.510 12.95	Tin Plated Brass	_	_	1217137-1 ²	_
	0.64	1.91	.480 12.19	Tin Plated Brass	_	_	1217180-1	_
В	.020 0.51	_	_	Tin Plated Phos Bronze	_	_	1217107-1 ¹	_
С	.250 x .016 6.35 x 0.41 Spade	—	—	Tin Plated Brass	_	_	62751-1	62806-1

¹ Horizontal mount. ² .180 [4.57] length solder legs.

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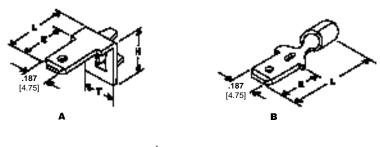


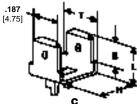


FASTON Printed Circuit Board Tabs and Receptacles (Continued)

187 Series Printed Circuit Board Tabs

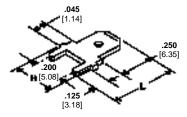
Stock Thickness — .020 [0.51]





Tuno	Board		Dime	ensions	5	Material	.R 1	()	Terminal
Туре	Thickness	т	TLEH		and Finish	J 74	U *	Part No.	
А	.055 1.38	.250 6.35	.332 8.43	.250 6.35	.283 7.19	Pre-Tin Brass	х	х	61543-1 ²
A	.062 1.57	.250 6.35	.332 8.43	.250 6.35	.283 7.19	Pre-Tin Brass	Х	х	62403-1 ²
В	.062 1.57	_	.545 13.84	.250 6.35	_	Tin-Plated Brass	Х	х	61907-1 ¹
С	.062 1.57	.250 6.35	.332 8.43	.250 6.35	.303 7.70	Pre-Tin Brass	х	х	62221-1 ²

¹ Loose piece only.
² Insertion equipment available.



Tab Part No.	Board	Dimensions			Material	(1)		Terminal
Thickness	Hole Size	L	н	and Finish	1	-	Strip ²	Loose Piece
.032 0.81	.053057 1.35-1.45	.487 12.37	.280 7.11	Tin Plated Brass	Х	Х	63525-1 ¹	1217057-1 ¹
.020	.050054	.487 12.37	.285 7.24	Tin Plated Brass	Х	х	63603-1	1217131-1
0.51	1.27-1.37	.440 11.18	.312 7.92	Tin Plated Brass	Х	Х	63838-1	_

¹ Dimple.

² Insertion equipment available.

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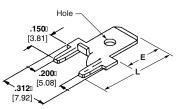




FASTON Printed Circuit Board Tabs and Receptacles (Continued)

187 Series

Printed Circuit Board Tabs (Continued)

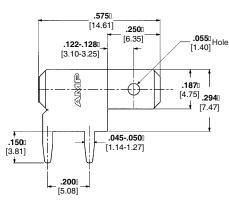


Tab	Dimensions		Material		A	Terminal Part No.		
Thickness	L	E	and Finish	.R 1	()	Strip ³	Loose Piece	
	.490	.250	Tin Plated Brass	Х	Х	63860-1 ¹	_	
	12.45	6.35	TITI FIALEU DI ASS	_	—	1217133-1	—	
.032 0.81	.710 18.03	.470 11.94	Tin Plated Brass	х	Х	1217124-1	_	
-	.635 16.13	.395 10.03	Tin Plated Brass	—	_	_	1217332-1 ²	
.020 0.51	.490 12.45	.250 6.35	Tin Plated Brass	Х	Х	63823-1	63982-1	

¹ Dimple. ² No hole or dimple.

³ Insertion equipment available.

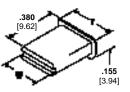
Right Angle Printed Circuit Board Tab



Stock Thickness	Board Hole Size	Material and Finish	<i>.</i> R 1	()	Terminal Part No.
.032	.053057	Tin Plated Brass	Х	Х	1217061-1
0.81	1.35-1.45	Tin Plated Brass		—	1217756-1 ¹
.020	.050054	Tin Plated Brass	Х	Х	1217062-1
0.51	1.27-1.37 TIT Flated Blass	_	_	1217156-1 ¹	

¹ Loose piece.

Tab Caps 187 and 250 Series



Tab Size	Material	UL 941	Color	Dime	Insulator	
Tab Size	material	UL 94'	Color	т	W	Part No.
"187" Series .020 [0.51] Thick	Nylon	V2	Natural	.320 8.13	.260 6.60	360041-1
"250" Series .032 [0.81] Thick	Nylon	V2	Natural	.380 9.65	.320 8.13	360042-1

¹ Flammability rating.

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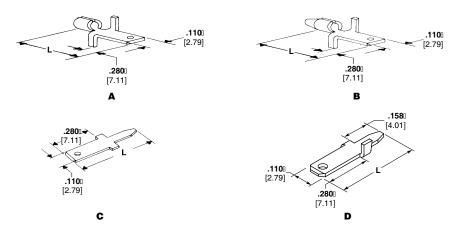
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.110 Series Printed Circuit Board

Stock Thickness — .020 [0.51]

FASTON Printed Circuit Board Tabs and Receptacles (Continued)



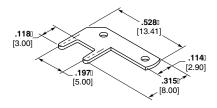
Style	Mating Hole Diameter	Dim. L	Material and Finish	.R 1	() *	Terminal Part No.
А	.060055 1.52-1.40	.490 12.45	Tin Brass	х	х	61134-3 ¹
В	.067063	.485	Tin Brass	X	Х	61968-1 ²
D	1.70-1.60	12.32	Thi Diass	Х	Х	62437-1 ¹
		.490 12.45	Tin Brass	х	х	62395-1 ²
	.044048 1.12-1.22	.622 15.80	Tin Brass	Х	х	63756-1 ^{2,3}
С		.910 23.11	Tin Brass		_	63794-1 ⁴
		.550 13.97	Tin/Lead	—	_	1217121-1 ¹
		.622 15.80	Tin Brass	_	_	1217514-1
	.067073	.490	Pre-tin/	Х	Х	62669-1 ²
	1.70-1.85	12.45	Pre-copper	~	~	52500 1
D	.062068 1.57-1.73	.545 13.84	Tin Brass	_	_	1217577-1 ²

¹ Loose piece only.

² Insertion machine available.

³.032 [0.81] Stock.
⁴.060 [1.52] Tab width.

Right Angle Printed Circuit Board Tabs



Tab Thickness	PCB Hole Dia. +0/01 [+0/03]	Material and Finish	<i>F1</i>	()	Terminal Part No.
.032 0.81	.055 1.40	Tin Plated Brass	—	_	725963-2
.020 0.51	.051 1.30	Tin Plated Brass	—	—	725996-2

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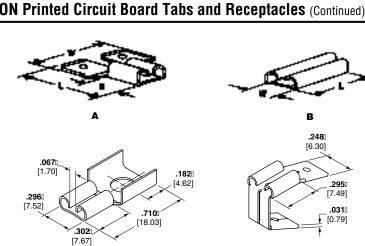


FASTON Printed Circuit Board Tabs and Receptacles (Continued)

250 Series

FASTON Tab Adapters

Fits Tab — .032 [0.81]

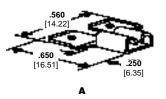


		C			D			
Style	Stock	Dimensions		Material	F1	()	Terminal	
	Thickness	W	L	E	and Finish	d 7 1	U	Part No.
	.018 0.46 Recpt.	.650	.770	.305	Brass	х	х	61765-1
A	.032 0.81 Tabs	16.51	19.56	19.56 7.75	Tin Plated Brass	Х	Х	61765-2 ¹
	0.81					_	_	1217033-1
В	.018	.300	.700		Tin Plated Brass	Х	Х	61810-2
	0.46	7.62	11.78	_	TIN Plated brass	Х	Х	63918-1 ²
С	.016 0.41	_	_	_	Nickel Plated Steel	_	_	151302-2
	.016 0.41	_	—	_	Brass (90°)	—	_	152422-1
D	.016 Recpt. 0.41	_	_	_	Brass	_	_	726308-1
	.032 Tabs				Diass			720300-1

¹ No tab stop on receptacle. ² Fits .025 [0.64] thick tab.

187 Series

FASTON Tab Adapters



Style	Stock Thickness	Receptacle Fits Tab	Material and Finish	<i>.</i> 91	()	Terminal Part No.
_	.013 Recpt. 0.33 Recpt. .020 Tabs 0.51	.020 0.51	Tin Plated Brass	х	х	61045-2
A	.013 0.33 Recpt. .032 Tabs 0.81	.032 0.81	Tin Plated Brass	Х	Х	63699-1

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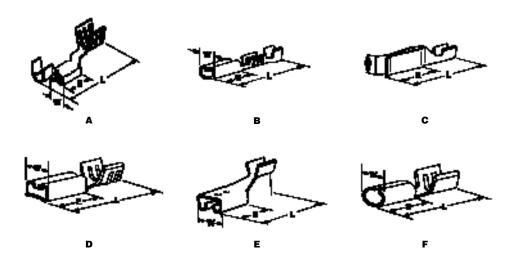
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FASTON Printed Circuit Board Tabs and Receptacles (Continued)

Tab Receptacles



Wire Range		T	T	Turne	Insul. Dia.	Stock	Material			Dimension	S					
AWG	mm ²	Туре	Range	Thk.	and Finish	Fits Tab	E	L	W	Part No.						
26-22	0.12-0.4	В	.035065 0.89-1.65	.010 .025	Pre-Tin Brass	.031 x .093 0.79 x 2.36	.190 4.83	.475 12.06	.120 3.05	61813-15						
				.040080	.010	Brass	.045 x .045 1.14 x 1.14	.130 3.3	.372 9.45	.095 2.41	60524-1					
		A	1.02-2.03	0.25	Tin Plated Beryllium Copper	.045 x .045 1.14 x 1.14	.130 3.3	.372 9.45	.095 2.41	60524-5						
					Tin Plated Brass	.031 x .062 0.79 x 1.57	.187 4.75	.462 11.73	.090 2.29	60900-1 ¹						
24-20	0.2-0.6				Gold Plated Brass	.031 x .062 0.79 x 1.57	.187 4.75	.462 11.73	.090 2.29	60900-2						
24-20	0.2-0.6	В	.040080 1.02-2.03	.010 0.25	Tin Plated Brass	.031 x .062 0.79 x 1.57	.187 4.75	.462 11.73	.090 2.29	60900-4 ²						
					Gold Plated Brass	.031 x .062 0.79 x 1.57	.187 4.75	.462 11.73	.090 2.29	60900-5 ⁷						
											Tin Plated Brass	.031062 0.79-1.57	.187 4.75	.462 11.73	.090 2.29	63887-1
							F	_	.010 0.25	Tin Plated Brass	.015 x .050 0.38 x 1.27	.145 3.68	.310 7.87	.070 1.78	62352-1	
22-20	0.3-0.6	Е	_	.010 0.25	Tin Plated Brass	.037 x .125 0.94 x 3.18	.190 4.83	.425 10.8	.160 4.06	41989						
		A	.060110	.010	Tin Plated Brass	.031 x .062 0.79 x 1.57	.130 3.3	.372 9.45	.090 2.29	61489-1						
22-18	0 2 0 0		1.52-2.79	0.25	Gold Plated Brass	.031 x .062 0.79 x 1.57	.130 3.3	.372 9.45	.090 2.29	61616-1						
22-10	0.3-0.9	P	0.3-0.9			.050085	.010	Pre-Tin Brass	.010 x .093 0.25 x 2.36	.190 4.83	.480 12.19	.120 3.05	63391-1 ³			
		^B 1 27-2 16 0 25	Pre-Tin Brass	.010 x .093 0.25 x 2.36	.190 4.83	.480 12.19	.120 3.05	63391-24								
					Pre-Tin Brass	.032 x .103 0.81 x 2.62	.200 5.08	.480 12.19	.126 3.2	60252-1 ⁶						
20-18	0.5-0.9	В	.080120 2.03-3.05	.010 0.25	Pre-Tin Brass	.020 x .103 0.51 x 2.62	.200 5.08	.480 12.19	.126 3.2	60432-1 ⁶						
20-18 0.5-0.9	0.5-0.9		Tin Plated Brass	.020 x .156 0.51 x 3.96	.200 5.08	.480 12.19	.179 4.55	62399-1								
		D	_	.010 0.25	Brass	.010 x .110 0.25 x 2.79	.200 5.08	.380 9.65	.148 3.76	62589-1						
18-14	0.8-2.0	С	_	.025 0.64	Brass	.060 x .250 1.52 x 6.35	.520 13.2	.985 25.02	.250 6.35	60312-1						

¹ Available in loose piece form, order Part No. 61454-1. ² Reverse reel of 60900-1. ³ Loose piece form, of Part No. 63391-2.

⁴ Compliant base.

⁵ No dimple.

⁶ Dimple.

7 Reverse reel of 60900-2.

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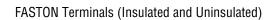
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FASTON RAST 5 Tab Header Assembly, 250 Series

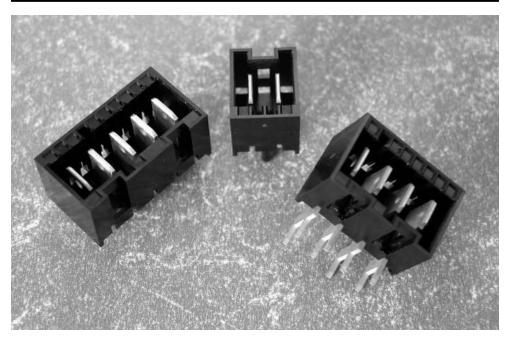
Product Facts

- .250 x .032 [6.3 x 0.8] FASTON Tabs built on 5 mm centerlines
- Shrouded Header Assembly that conforms to the European RAST 5 Standard
- Mating Tyco Electronics **Connector Families include** AMP Positive Lock RAST 5 Connector System, AMP Standard Timer RAST 5, AMP multifitting, AMP multifitting MKII, AMP MONO-SHAPE TAB MKI, and AMP MONO-SHAPE MKII
- Vertical and Right-Angle Versions available in 2 through 8 positions
- Tin Plated Brass Tabs are Standard, Silver Plated Tab Versions are available upon Request
- Lead Free Design is RoHS and ELV Compliant
- UL 94 V-0 Housing meets Glow Wire IEC 60695-1 Section 30.2.3 - 750° **NO FLAME**
- Agency approvals will include UL, CSA, TUV, and VDE

Material

UL 94 V-0, 6/6 Nylon

FASTON Printed Circuit Board Tabs and Receptacles (Continued)



The AMP FASTON RAST 5 Tab Header Assembly system is designed to provide a RAST 5 interface to a Printed Circuit Board. The **RAST 5 Standard defines** and standardizes the connector mating interface. 250 Series Tabs are placed on 5mm center lines with a plastic shroud that has keying, polarization, and locking features that help prevent mismating of the corresponding RAST 5 Female Receptacle Housing. The Header Assembly is

designed to accept any **RAST 5 compliant Female** receptacle system or individual Quick Connects.

The most common application for this product is for Household Appliance Controls where OEM's want to minimize the possibility of crossed wires. It is also suited for other applications such as Gaming, Vending, and Exercise Equipment controls as well as Residential, Commercial and Industrial HVAC and light industrial equipment.

The system comes fully assembled and is easily press fit into the board for the soldering operation. Preassembly of the tabs into the Header ensures tab perpendicularity to the board. The solder leg PCB layout is based on the Industry Standard for similar systems available on the market. To further ensure correct placement onto the board, the vertical system includes a plastic post which allows Header placement to be polarized.

See Tyco Electronics Catalogs 296599, 889803, 1308197, 1308209 for the complete line of RAST products.

Catalog 82004 Revised 7-06

www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 52-55-1106-0800 C. America: 57-1-254-4444







FASTON Printed Circuit Board Tabs and Receptacles (Continued)

Ø .098 Hole for

.049

[1.25]

Ø .053 ± .001 [1.35 ± 0.05] Typ.

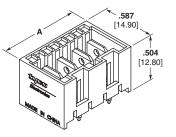
[2.50] Polarizing Peg

.252

[6.40]

FASTON RAST 5 Tab Header Assembly, 250 Series

(Continued)



Vertical Orientation

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.098 [2.50]

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PCB Tab Position 1

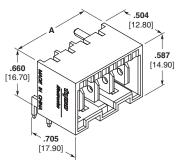
.197 [5.00] Typ.

.049

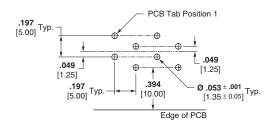
Тур [5.00]

[1.25]

.197



Right Angle Orientation



Vertical Orientation PCB Layout (Ref.) from Component Side

Right Angle Orientation PCB Layout (Ref.) from Component Side

No. of	RAST 5	Dim. A	Part Numbers			
Positions	Configuration	Dim. A	Vertical	Right Angle		
	02-A	.484 [12.30]	521382-2	521384-2		
	02-B	.484 [12.30]	1-521382-2	1-521384-2		
	02-C	.484 [12.30]	2-521382-2	2-521384-2		
2	02-E	.484 [12.30]	3-521382-2	3-521384-2		
	02-G	.484 [12.30]	4-521382-2	4-521384-2		
	02-I	.484 [12.30]	5-521382-2	5-521384-2		
	02-P	.484 [12.30]	6-521382-2	6-521384-2		
	03-A	.681 [17.30]	521382-3	521384-3		
3	03-B	.681 [17.30]	1-521382-3	1-521384-3		
3	03-D	.681 [17.30]	2-521382-3	2-521384-3		
	_	.681 [17.30]	Vertical 521382-2 1-521382-2 2-521382-2 3-521382-2 4-521382-2 5-521382-2 6-521382-2 521382-3 1-521382-3	3-521384-3		
	04-A	.878 [22.30]	521382-4	521384-4		
	04-B	.878 [22.30]	1-521382-4	1-521384-4		
	04-C	.878 [22.30]	2-521382-4	2-521384-4		
4	04-F	.878 [22.30]	3-521382-4	3-521384-4		
	04-G	.878 [22.30]	4-521382-4	4-521384-4		
		.878 [22.30]	5-521382-4	5-521384-4		
	05-B	1.075 [27.30]	521382-5	521384-5		
-		1.075 [27.30]	1-521382-5	1-521384-5		
5		1.075 [27.30]	2-521382-5	2-521384-5		
		1.075 [27.30]	3-521382-5	3-521384-5		
•	06-A	1.272 [32.30]	521382-6	521384-6		
6	06-D	1.272 [32.30]	1-521382-6	1-521384-6		
	07-C	1.469 [37.30]	521382-7	521384-7		
7		1.469 [37.30]	1-521382-7	1-521384-7		
7	_	1.469 [37.30]	2-521382-7	2-521384-7		
		1.469 [37.30]	3-521382-7	3-521384-7		
	08-D	1.665 [42.30]	521382-8	521384-8		
8	_	1.665 [42.30]	1-521382-8	1-521384-8		
	08-C	1.665 [42.30]	2-521382-8	2-521384-8		

Refer to the Tyco Electronics Customer Drawing for additional details.

For more information related to the RAST 5 Standard, see Tyco Electronics Literature Distribution no. 1308243.

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