

FASTON Printed Circuit Board Tabs and Receptacles

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



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 dozens of 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.

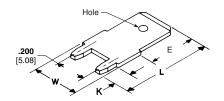
The Tyco Electronics product has been designed to be compatible with industry insertion equipment. In many cases, this product will work as a "drop in" replacement for existing product. In some cases, slight modifications or minor tooling changes are necessary. Please consult Technical Support or the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



250 Series Printed Circuit Board Tabs

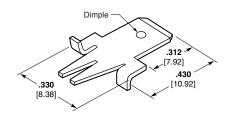
Stock Thickness — .032 [0.81] Board Hole Size — .055 \pm .002 [1.40 \pm 0.05] Dia.



	Dimer	nsions		Material	.91	<u> </u>	Terminal	l Part No.
W	L	K	Е	and Finish	**************************************	⊕ ∘	Strip ²	Loose Piece1
	.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 Plated Brass	Х	Х	_	62409-1 ³
7.49	15.80	3.18	7.92	Till Plated Brass	_	_	_	1217056-1
	.487 12.37	.125 3.18	.312 7.92	Tin Plated Brass	Χ	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	Till Plated Brass		_	63755-1 ³	_

¹ Board Hole Size:.060/.053 [1.52/1.35] Dia.

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



Material	9/	<u> </u>	Termi	inal Part No.
and Finish	°74	Œ.	Strip ¹	Loose Piece
Tin Plated Brass	X	X	63066-1	63067-1

¹ Insertion equipment available.

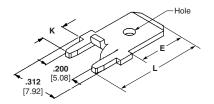
² Insertion equipment available.

³ Dimple.



250 Series Printed Circuit Board Tabs (Continued)

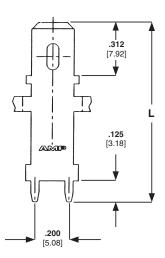
Stock Thickness — .032 [0.81] Board Hole Size — .055 \pm .002 [1.40 \pm 0.05] Dia.



	Dimensions	5	Material	.91	<u> </u>	Termin	al Part No.
L	K	E	and Finish	° 77	∰∘	Strip ¹	Loose Piece
.552	.150	.312	Tin Plated Brass	Х	Х	63862-1 ²	1742188-1 ²
14.02	3.81	7.92	TIII Flateu Diass	Х	Х	63824-1	63849-1
.582	.180	.312	Tin Plated Brass	Х	Х	1217136-1	_
14.78	4.57	7.92	Tim Flatou Blaco	X	Х	_	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	Х	Х	1217125-1	1217169-1
.780	.150	.540	Tin Plated Brass	Χ	Χ	1217127-1	_
26.18	3.81	13.72	atou brado	Х	Х	_	1217167-1

¹ Insertion equipment available.

 $\begin{array}{l} \textbf{Stock Thickness} -- .032 \ [0.81] \\ \textbf{Board Hole Size} -- \\ .055 \pm .002 \ [1.40 \pm 0.05] \ Dia. \\ \end{array}$



Dimension L	Material and Finish	. 7. 1	∰∘	Terminal Part No.
1.062 26.97	Tin Plated Brass	Χ	Х	63949-1
1.207 30.66	Tin Plated Brass	Х	Х	63950-1

Note: All part numbers are RoHS compliant.

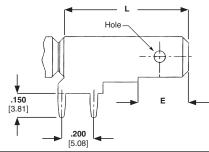
² Dimple.



250 Series Printed Circuit Board Tabs (Continued)

Right-Angle Printed Circuit Board Tabs

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

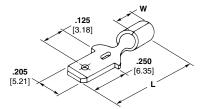


Dime	nsions	Material	81		Terminal Part No.	
E	L	and Finish	. 51 2	® ∘	Strip ¹	Loose Piece
.312 7.92	.800 20.32	Tin Plated Brass	Х	Х	63951-1	1217754-1
.358 9.09	.630 16.00	Tin Plated Brass	_	_	_	928814-1
.738 18.74	1.00 25.40	Tin Plated Brass	_	_	63952-1	_

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.

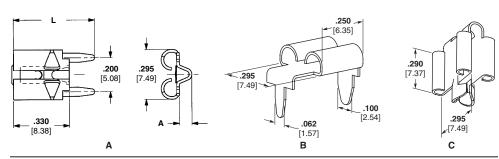


Dimer	nsions	Material		⊕ ∘	Terminal
L	W	and Finish	, 91		Part No.
.525 13.34	.070 1.78	Tin Plated Brass	Х	Х	62411-11
.545 13.84	.160 4.06	Tin Plated Brass	Х	Х	60284-21

¹ Loose piece only.

.250/.205 Printed Circuit Board Receptacles

Stock Thickness — .016 [0.41]



Fits	Dime	nsions	Material	rial 🔼 🔼		Part No.			
Tab	Α	L	and Finish	° 77	Œ.	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		
.025 0.64 (LIF)	.075 1.91	.480 12.19	Tin Plated Brass	_	_	63994-1	_		
.025			.075	.510 12.95	Tin Plated Brass	_	_	1217137-1 ²	_
0.64	1.91	.480 12.19	Tin Plated Brass	_	_	1217180-1	_		
.020 0.51	_	_	Tin Plated Phos Bronze	_	_	1217107-1 ¹	_		
.250 x .016 6.35 x 0.41 Spade	_	_	Tin Plated Brass	_	_	62751-1	62806-1		
	.032 (LIF) .032 (0.81 (LIF) .032 (0.81 .025 (0.64 (LIF)) .025 (0.64 .020 (0.51) .250 x .016 6.35 x 0.41	.032 (LIF) .075 (0.81 (LIF) .075 (0.81 .075 (0.81 .075 (0.64 (LIF) .075 (0.64 (LIF) .075 (0.64 .075	Tab A L .032 (.81 (LIF) .075 (.91 (LIF) .480 (.91 (LIF) .032 (.95 (.91 (LIF)) .075 (.95 (.91 (LIF)) .480 (.95 (.95 (.91 (LIF)) .025 (.95 (.95 (.95 (.95 (.95 (.95 (.95 (.9	Tab A L and Finish .032 (.81 (LIF) .075 (.981 (LIF)) .480 (.981 (LIF)) Tin Plated Brass .032 (.81 (.981 (LIF)) .075 (.984 (LIF)) .480 (.984 (LIF)) Tin Plated Brass .025 (.64 (LIF)) .075 (.984 (LIF)) .480 (.984 (LIF)) Tin Plated Brass .025 (.64 (LIF)) .075 (.984 (LIF)) .480 (.984 (LIF)) Tin Plated Brass .020 (.951 (LIF)) .984 (.984 (LIF)) Tin Plated Brass .020 (.951 (LIF)) .984 (.984 (LIF)) Tin Plated Brass .020 (.951 (LIF)) .984 (.984 (LIF)) Tin Plated Brass .021 (.984 (LIF)) .984 (.984 (LIF)) Tin Plated Brass .022 (.984 (LIF)) .984 (.984 (LIF)) Tin Plated Brass .023 (.984 (LIF)) .984 (.984 (LIF)) Tin Plated Brass .024 (.984 (LIF)) .984 (.984 (LIF)) Tin Plated Brass .025 (.984 (LIF)) .984 (.984 (LIF)) Tin Plated Brass .085 (.984 (LIF)) .984 (.984 (LIF)) Tin Plated Brass	Name	National Process National Pr	Tab A L and Finish Strip .032 (LIF) 0.81 (LIF) 0.81 (LIF) 0.81 (LIF) 1.91 (1		

Note: All part numbers are RoHS compliant.

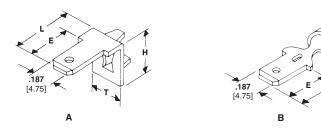
¹ Horizontal mount.

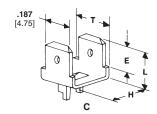
² .180 [4.57] length — solder legs.



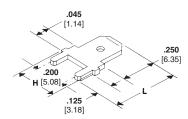
187 Series **Printed Circuit Board Tabs**

Stock Thickness — .020 [0.51]





Type	Board		Dimen	sions		Material	. F \	⊕ ∘	Terminal
Туре	Thickness	Т	L	E	Н	and Finish	® 74	@ °°	Part No.
A	.055 1.38	.250 6.35	.332 8.43	.250 6.35	.283 7.19	Pre-Tin Brass	Χ	Х	61543-1 ²
^	.062 1.57	.250 6.35	.332 8.43	.250 6.35	.283 7.19	Pre-Tin Brass	Χ	Х	62403-1 ²
В	.062 1.57	_	.545 13.84	.250 6.35	_	Tin Plated Brass	Χ	Х	61907-11
С	.062 1.57	.250 6.35	.332 8.43	.250 6.35	.303 7.70	Pre-Tin Brass	Х	Х	62221-1 ²



Tab	Board	Dimer	nsions	Material		<u> </u>	Terminal Part No.	
Thickness	Hole Size	L	Н	and Finish	.71	⊕ ∘	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	1217057-11
.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.

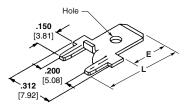
¹ Loose piece only.² Insertion equipment available.

² Insertion equipment available.



187 Series Printed Circuit Board Tabs

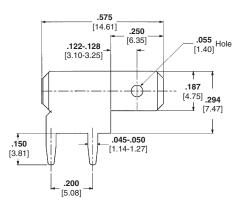
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Tab	Dimensions		Material		@ .	Termina	al Part No.
Thickness	L	E	and Finish	. 91	⊕ ∘	Strip ³	Loose Piece
	.490	.250	Tin Plated Brass	Х	Х	63860-1 ¹	_
	12.45	6.35	Till Flated Brass		_	1742361-1	_
. 032 0.81	.710 18.03	.470 11.94	Tin Plated Brass	Х	Х	1217124-1	_
	.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	1742362-1	63982-1

¹ Dimple.

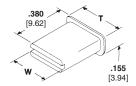
Right-Angle Printed Circuit Board Tabs



Stock Thickness	Board Hole Size	Material and Finish	. PL	∰∘	Terminal Part No.
.032	.053057	Tin Plated Brass -	Х	Х	1217061-1
0.81	1.35-1.45		_	_	1217756-11
.020	.050054	Tin Plated Brass	Х	Х	1217062-1
0.51	1.27-1.37	Tiri Plated Brass		_	1217156-1 ¹

¹ Loose piece.

Tab Caps 187 and 250 Series



Tab Size	Material	I UL 941	Color	Dime	Insulator	
Tab Size	Material	OL 34	Coloi	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.

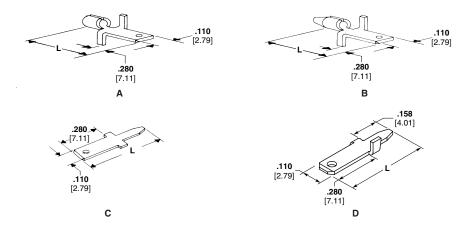
² No hole or dimple.

³ Insertion equipment available.



.110 Series Printed Circuit **Board Tabs**

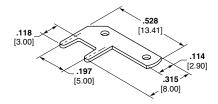
Stock Thickness — .020 [0.51]



Style	Mating Hole Diameter	Dim. L	Material and Finish	. 5/1	® ∘	Terminal Part No.
Α	.060055 1.52-1.40	.490 12.45	Tin Plated Brass	Х	Х	61134-3 ¹
В	.067063 1.70-1.60	.485	.485 12.32 Tin Plated Brass	X	Х	61968-12
		12.32		X	Х	62437-1 ¹
С	. 044048 1.12-1.22	.490 12.45	Tin Plated Brass	Х	Х	62395-1²
		.622 15.80	Tin Plated Brass	Х	Х	63756-1 ^{2,3}
		.910 23.11	Tin Plated Brass	_	_	63794-14
		.622 15.80	Tin Plated Brass	_	_	1217514-1
	.067073 1.70-1.85	.490 12.45	Pre-tin/ Pre-copper	Х	Х	62669-1 ²
D	. 062068 1.57-1.73	.545 13.84	Tin Plated Brass	_	_	1217577-12

¹ Loose piece only.

Right-Angle Printed Circuit Board Tabs



Tab Thickness	PCB Hole Dia. +0/01 [+0/03]	Material and Finish	. 7.1	® °	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

² Insertion machine available.

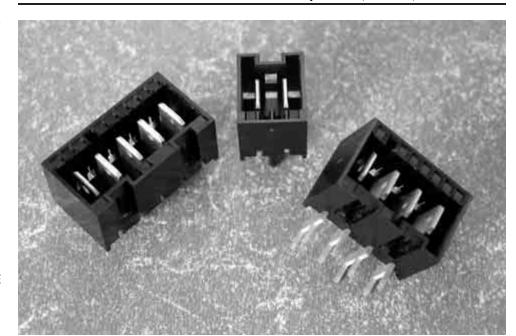
³ .032 [0.81] Stock. ⁴ .060 [1.52] Tab width.



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 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
- Component Recognition USR and CSR under File No. E28476
- VDE tested according to DIN EN61984 (VDE0627): 2002-09; EN61984: 2001 VDE Reg. No. B718



The 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 OEMs 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 enhance correct placement onto the board, the vertical system includes a plastic post which allows Header placement to be polarized.

Material

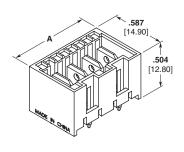
UL 94 V-0, 6/6 Nylon

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

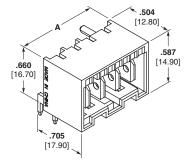


FASTON RAST 5 Tab Header Assembly, 250 Series

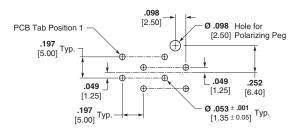
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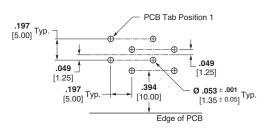
Vertical Orientation



Right-Angle Orientation



Vertical Orientation PCB Layout (Ref.) from Component Side



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

No. of	RAST 5		Part N	Part Numbers		
Positions	Configuration	Dim. A	Vertical	Right-Angle		
2	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		
	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		
0	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]	3-521382-3	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		
6	06-A	1.272 [32.30]	521382-6	521384-6		
	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		
		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.

Note: All part numbers are RoHS compliant.