FASTON Printed Circuit Board Tabs and Receptacles

Product Facts

₹тусо

Full line of PCB tabs and receptacles

Electronics

- 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 line. Tyco Electronics currently has an entry level semi-automatic, air-powered bench machine under development for customers with moderate insertion requirements. The compact, fully automatic AccuSerter 2 machine is available for applications where larger volumes will be inserted and where programmable, microprocessor controlled equipment is desired. Tyco Electronics also offers the P300 and P350 series machines for even higher automation. Capabilities include: servo drive, force monitoring, up to three heads. This machine is available in stand-alone or in-line configurations.

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.

Printed Circuit Board Tabs and Receptacles

Catalog 82004 Revised 12-10 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/C. Am.: +52 (0) 55-1106-0814 South America: +55 (0) 11-2103-6000 Germany: +49 (0) 6251-133-1999 UK: +44 (0) 800-267666 France: +33 (0) 1-3420-8686 China: +86 (0) 400-820-6015

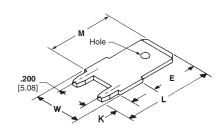
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250 Series Printed Circuit Board Tabs

₹ Tyco Electronics

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



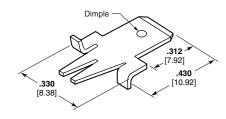
	Di	imensio	ns		Material	<i>.</i> R .	A .	Termina	al Part No.
W	L	К	Е	М	and Finish	.74	€₽	Strip ²	Loose Piece ¹
	.502 12.75	.125 3.18	.312 7.92	.377 9.58	Tin Plated Brass	Х	х	63839-1 ³	—
.312 7.92	.547 13.89	.157 3.99	.312 7.92	.400 10.16	Tin Plated Brass	Х	х	63986-1	_
	.552	.150	.312	.402	Tin Plated Brass	Х	Х	1217566-1	—
	14.02	3.81	7.92	10.21	TIN Plated brass	Х	Х	1217539-1	—
.295	.622	.125	.312	.497	Tin Plated Brass	Х	Х	—	62409-1 ³
7.49	15.80	3.18	7.92	12.62	TIN Plated brass	_	_	—	1217056-1
	.487 12.37	.125 3.18	.312 7.92	.362 9.19	Tin Plated Brass	Х	х	62650-1 ³	_
.280 7.11	.532 13.51	.175 4.45	.312 7.92	.357 9.07	Tin Plated Brass	Х	х	63650-1 ³	_
	.622	.125	.452	.497	Tin Plated Brass	Х	Х	_	63900-1
	15.80	3.18	11.48	12.62	TITI Flateu Blass	Х	Х	63755-1 ³	—

¹ Board hole size: .060/.053 [1.52/1.35] dia.

² Insertion equipment available.

³ Dimple.

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



Material	81	<u>A</u>	Termi	nal Part No.
and Finish	•74	() ()	Strip ¹ Loose Pie	
Tin Plated Brass	Х	X	63066-1	63067-1

¹ Insertion equipment available.

Note: All part numbers are RoHS compliant.

Catalog 82004 Revised 12-10 www.tycoelectronics.com

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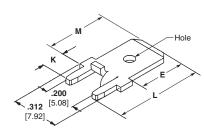
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250 Series Printed Circuit Board Tabs (Continued)

Stock Thickness — .032 [0.81]

₹ Tyco Electronics

Board Hole Size — .055 ± .002 [1.40 ± 0.05] Dia.

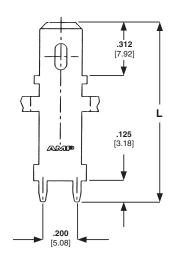


		Dimensions	;	Material	<i>.</i> 9 /	A .	Termina	l Part No.
L	К	Е	М	and Finish	874	Ð	Strip ¹	Loose Piece
.552	.150	.312	.402	Tin Plated Brass	Х	Х	63862-1 ²	1742188-1 ²
14.02	3.81	7.92	10.21	TIN Plated Brass	Х	Х	63824-1	63849-1
.582 14.78	.180 4.57	.312 7.92	.402 10.21	Tin Plated Brass	Х	х	1217136-1	1217421-1
.650 16.51	.150 3.81	.410 10.41	.500 12.70	Tin Plated Brass	Х	х	1217126-1 ²	_
.710 18.03	.150 3.81	.470 11.94	.560 14.22	Tin Plated Brass	Х	х	1217125-1	1217169-1
.780 26.18	.150 3.81	.540 13.72	.630 16.00	Tin Plated Brass	Х	х	1217127-1	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 .	()	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

Note: All part numbers are RoHS compliant.

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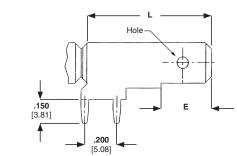
250 Series Printed Circuit

Électronics

Board Tabs (Continued)

₹тусо

 $\begin{array}{l} \textbf{Right-Angle Printed Circuit}\\ \textbf{Board Tabs}\\ \textbf{Stock Thickness} & _.032 \ [0.81]\\ \textbf{Board Hole Size} & _\\.055 \pm .002 \ [1.40 \pm 0.05] \ Dia.\\ \end{array}$

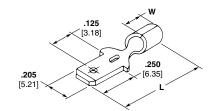


Dimer	nsions	Material	.91	<u>A</u>	Terminal Part No.		
E	L	and Finish	• 74	S ₽∘	Strip ¹	Loose Piece	
.312 7.92	.800 20.32	Tin Plated Brass	Х	Х	63951-1	1217754-1	
.358 9.09	.630 16.00	Tin Plated Brass	—	_	—	928814-1	
.662 16.83	1.00 25.40	Tin Plated Brass	_	_	63952-1	_	

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.

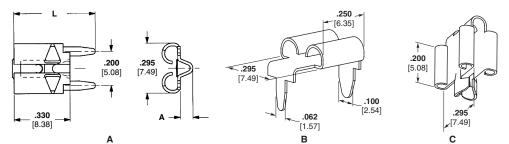


Dimensions		Material	81	A .	Terminal	
L	W	and Finish	.R .	S ₽°	Part No.	
.525 13.34	.070 1.78	Tin Plated Brass	Х	х	62411-1 ¹	
.545 13.84	.160 4.06	Tin Plated Brass	Х	х	60284-2 ¹	

¹ Loose piece only.

.250/.205 Printed Circuit Board Receptacles

Stock Thickness — .016 [0.41]



Style	Fits	Dime	nsions	Material	81	A .	Par	t No.
Style	Tab	Α	L	and Finish	.R .	<u>ج</u>	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	.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

Note: All part numbers are RoHS compliant.

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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.

solder legs.

¹ Horizontal mount.

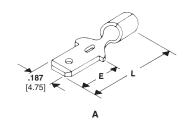
2 .180 [4.57] length

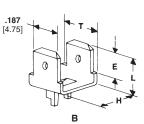
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187 Series Printed Circuit Board Tabs

₹ Tyco Electronics

Stock Thickness — .020 [0.51]

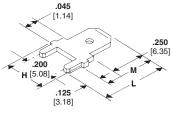




Tuno	Board		Dimensions			Material	.91	€ ₽∘	Terminal	
Туре	Thickness	Т	L	Е	Н	and Finish	° 74	শ	Part No.	
А	.062 1.57	—	.545 13.84	.250 6.35	—	Tin Plated Brass	Х	х	61907-1 ¹	
В	.062 1.57	.250 6.35	.332 8.43	.250 6.35	.303 7.70	Pre-Tin Brass	Х	х	62221-1 ²	

¹ Loose piece only.

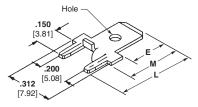
² Insertion equipment available.



Tab	Board	Di	mensio	ns	Material	.71	A .	Terminal Part No.	
Thickness	Hole Size	L	М	Н	and Finish	•74	()	Strip ²	Loose Piece
.032 0.81	.053057 1.35-1.45	.487 12.37	.362 9.19	.280 7.11	Tin Plated Brass	х	х	63525-1 ¹	1217057-1 ¹
.020	.050054	.487 12.37	.362 9.19	.285 7.24	Tin Plated Brass	Х	х	63603-1	1217131-1
0.51	1.27-1.37	.440 11.18	.315 8.00	.312 7.92	Tin Plated Brass	Х	Х	63838-1	_

¹ Dimple.

² Insertion equipment available.



Tab	D	imension	s	Material	<i>.</i> ?/	€ ₽°	Termina	I Part No.
Thickness	L	Е	М	and Finish	° 71	W [®]	Strip ³	Loose Piece
	.490	.250	.340	Tin Plated Brass	Х	Х	63860-1 ¹	_
	12.45	6.35	8.64	TIT Flateu Drass	X	Х	1217133-1	_
.032	.510 12.95	.250 6.35	.370 9.40	Tin Plated Brass	Х	Х	1742361-1	_
0.81	.710 18.03	.470 11.94	.560 14.22	Tin Plated Brass	Х	х	1217124-1	—
	.635 16.13	.395 10.03	.485 12.32	Tin Plated Brass	Х	Х	—	1217332-1 ²
.020	.490 12.45	.250 6.35	.340 8.64	Tin Plated Brass	Х	х	63823-1	63892-1
0.51	.510 12.95	.250 6.35	.370 9.40	Tin Plated Brass	Х	х	1742362-1	_

¹ Dimple.

² No hole or dimple.

³ Insertion equipment available.

Note: All part numbers are RoHS compliant.

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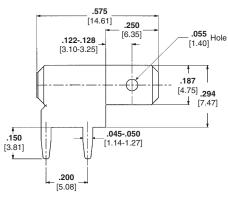
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187 Series Printed Circuit Board Tabs (Continued)

₹ Tyco Electronics

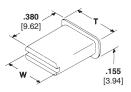
Right-Angle Printed Circuit Board Tabs



Stock Thickness	Board Hole Size	Material and Finish	<i>.</i> 9 <i>L</i>	S ₽°	Terminal Part No.
.032	.053057	Tin Plated Brass	Х	Х	1217061-1
0.81	1.35-1.45	THI Flated Blass	_	_	1217756-1 ¹
.020	.050054	Tin Plated Brass	Х	Х	1217062-1
0.51	0.51 1.27-1.37 The Plated Brass		_	_	1217156-1 ¹

¹ Loose piece.

Tab Caps 187 and 250 Series



Motorial	111 041	Color	Dime	Insulator	
Material	UL 94	COIDI	т	W	Part No.
Nylon	V2	Natural	.320 8.13	.260 6.60	360041-1
Nylon	V2	Natural	.380 9.65	.320 8.13	360042-1
	,	Nylon V2	Nylon V2 Natural	Material UL 941 Color T Nylon V2 Natural .320 8.13	T W Nylon V2 Natural .320 .260 Nylon V2 Natural .330 .260 Nylon V2 Natural .380 .320

¹ Flammability rating.

Note: All part numbers are RoHS compliant.

Catalog 82004 Revised 12-10

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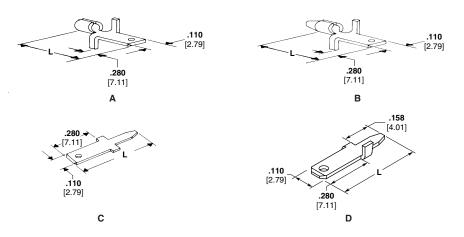
millimeters unless otherwise specified. Values in brackets www.tycoelectronics.com are metric equivalents.

Dimensions are in inches and

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.110 Series Printed Circuit Board Tabs Stock Thickness — .020 [0.51]



Style	Mating Hole Diameter	Dim. L	Material and Finish	<i>.</i> 72	S ₽°	Terminal Part No.
А	.060055 1.52-1.40	.490 12.45	Tin Plated Brass	х	х	61134-3 ¹
В	.067063 1.70-1.60	.485 Tin Plated Brass	Х	Х	61968-1 ²	
			TITI FIALEU DIASS	Х	Х	62437-1 ¹
С	.044048 1.12-1.22	.490 12.45	Tin Plated Brass	х	х	62395-1 ²
		.622 15.80	Tin Plated Brass	х	Х	63756-1 ^{2,3}

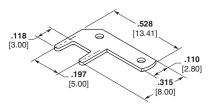
¹ Loose piece only.

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>L</i> R .	S₽ °	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

Note: All part numbers are RoHS compliant.

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FASTON RAST 5 Tab Header Assembly, 250 Series

Electronics

Product Facts

₹ Тусо

- .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

 be part of the two sets of two sets of the two sets of two sets

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 Catalog 1654742 for the complete line of RAST products.

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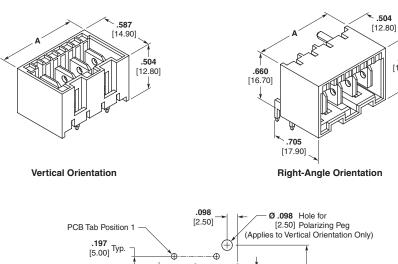
Revised 12-10 www.tycoelectronics.com

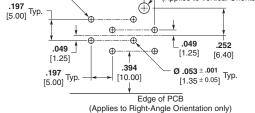
Catalog 82004

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PCB Layout

(Ref.) from Component Side

No. of	RAST 5		Part Numbers		
Positions	Configuration	Dim. A	Vertical	Right-Angle	
2	02-A	.484 [12.30]	521382-2	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-I	.484 [12.30]	5-521382-2	5-521384-2	
2	03-A	.681 [17.30]	521382-3	521384-3	
	03-B	.681 [17.30]	1-521382-3	1-521384-3	
3	03-D	.681 [17.30]	2-521382-3	2-521384-3	
	03-K	.681 [17.30]	4-521382-3	_	
4	04-A	.878 [22.30]	521382-4	521384-4	
	04-B	.878 [22.30]	1-521382-4	1-521384-4	
	04-F	.878 [22.30]	3-521382-4	3-521384-4	
	04-G	.878 [22.30]	4-521382-4	4-521384-4	
5	05-B	1.075 [27.30]	521382-5	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	
7	07-C	1.469 [37.30]	521382-7	521384-7	
0	08-D	1.665 [42.30]	521382-8	521384-8	
8	08-C	1.665 [42.30]	2-521382-8	2-521384-8	

Refer to the Tyco Electronics Customer Drawing for additional details and specific keying patterns. For more information related to the RAST 5 Standard, see Tyco Electronics Literature Distribution no. 1308243.

Available variations include: silver plated tabs, DIN style tabs, and Glow Wire housings.

RAST 5 headers mate to the following product families: AMP multifitting MKII, RAST 5 Positive Lock MKIII, AMP Standard Timer and AMP Standard Power Timer.

Note: All part numbers are RoHS compliant.

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[14.90]

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