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SMT Hardware

Test Points

- Ideal for use with standard probes, clips and hooks.
- Can be placed using industry standard equipment.
- Suitable for automatic or manual test
- ► High speed placement.
- Industry standard tape and reel packaging.
- Strong and durable.



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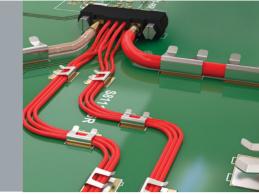
		2.00mm HIGH	
Material: Finish:	Copper Alloy Tin	3.25	
 ▶ Packaging Format: Reel quantity \$1751-46R: \$2751-46R: \$2761-46R: 	Tape & Reel 2,500 on a Ø330mm reel 2,500 on a Ø178mm reel 3,000 on a Ø178mm reel		3.45
			Recommended PC Board Pattern
			ORDER CODE S1751-46R
1.40mm HIGH		1.15mm HIGH	
2.00			0.80
	Recommended PC Board Pattern		Recommended PC Board Pattern
	ORDER CODE S2751-46R		ORDER CODE S2761-46R

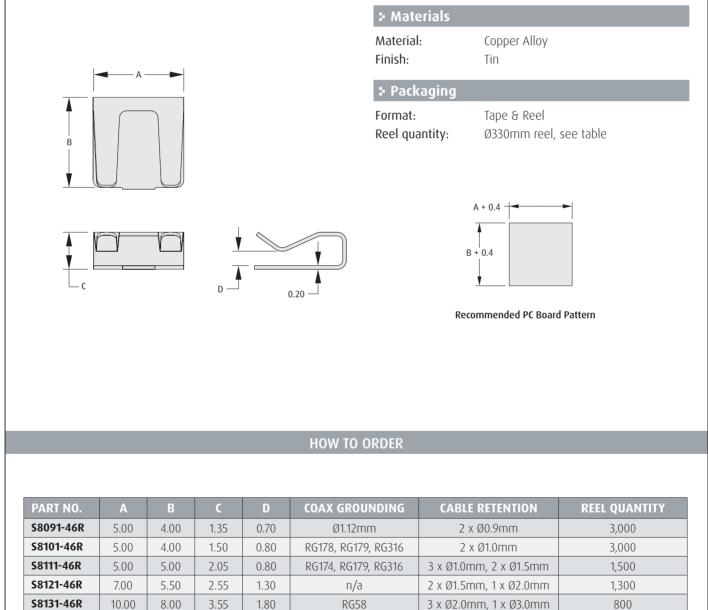
www.harwin.com

SMT Hardware

Cable Management & Grounding Clips

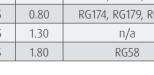
- Suitable for use with insulated cables with outer diameters Ø0.9 to Ø3mm and grounding braided coax cables.
- reducing additional operation time required for mounting plastic clip types.
- Low profile & small footprint saves PCB space.





All dimensions in mm.

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SMT Coin Cell Holder

Battery Retainer for Ø12mm Coin Cell

- ► Tape & reel packaged for auto-placement to PCB.
- Highly effective retention of coin cell batteries.
- Eliminates the need for soldered-in coin cells.
- Low profile design available with dual independant contact points for enhanced electrical reliability.
- Accommodates CR1220, CR1225 and similar coin cell batteries.





STANDARD LOW PROFILE Packaging Packaging Tape & Reel Format: Tape & Reel Format: Reel quantity: 1,000 on a Ø330mm reel Reel quantity: 500 on a Ø330mm reel Suitable for battery size: BR1225, CR1216, CR1220, CR1225 Suitable for battery size: CR1220 Ø14.80-4.25 Ø0.90 13.20 3.20 19,20 11.80 0 Ø115 3.20 5.65 - 2.30 4.50 19.00 2.45 Ø1.00-1.05 19.00 4.00 7.45 3.60 square Ø1.25-1.30 2 00 3.50 -✓ Negative contact 4.50 Recommended PC Board Pattern **Recommended PC Board Pattern** HOW TO ORDER **S8 XX1 - XX R** PACKAGING **SERIES CODE** R Tape & Reeled ΤΥΡΕ FINISH Low Profile 201 Standard 45 Gold (S8411) 411 46 Tin (S8201)

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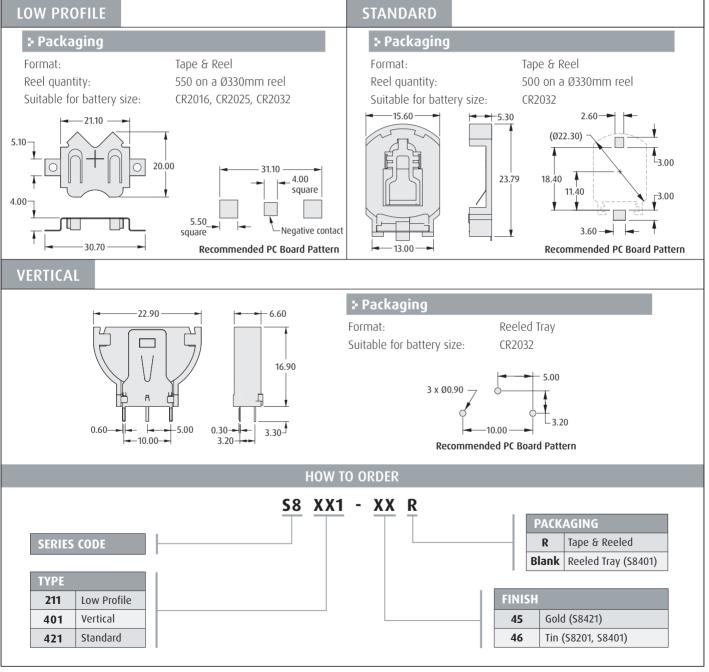
Coin Cell Holder

Battery Retainer for Ø20mm Coin Cell

- Horizontal designs are tape & reel packaged for auto placement.
- Highly effective retention of coin cell batteries.
- Eliminates the need for soldered-in cells.
- Vertical mount minimises PCB real estate usage.
- Low profile design available with dual independent contact points for enhanced electrical reliability.
- Accomodates CR2032 and similar coin cell batteries.



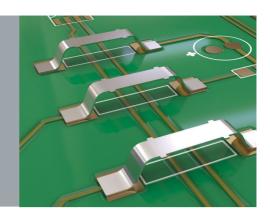
IARWIN



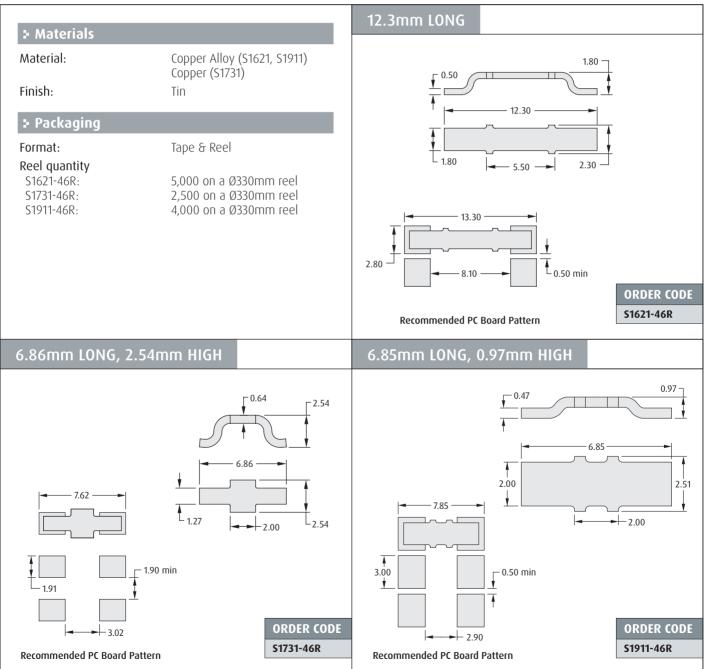
SMT Hardware

SMT Fixed Jumper Link

- Designed to link PCB tracks where through hole links are not possible.
- Typical applications include use on aluminium backplanes in power applications.
- ► High current.
- Small footprint.
- Low profile options available for space saving design.

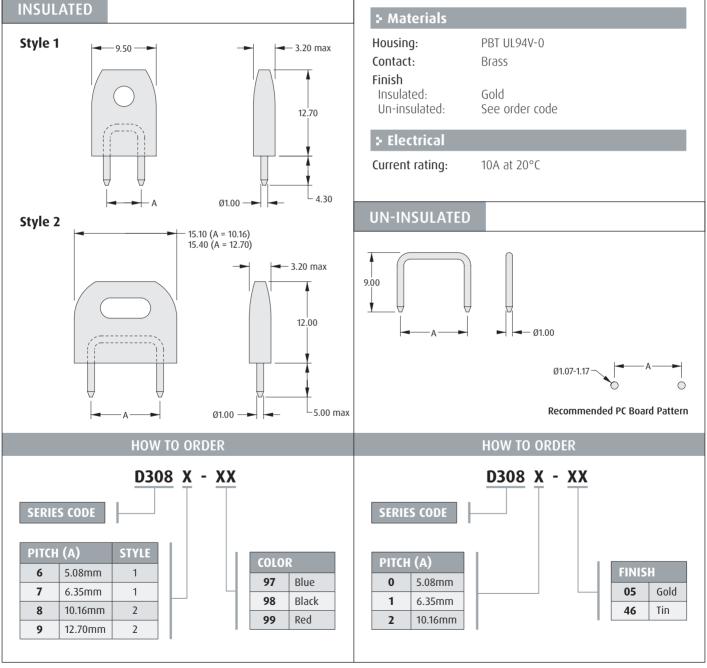


IARWiN



Ø1mm Shorting Link Plugs

- Choice of insulated or un-insulated links.
- Insulated links supplied in a variety of colors, with a high-performance gold finish.
- Un-insulated links can be soldered directly into the PCB for permanent linking.
- Can be used with individual PCB sockets for hardware programming applications.



All dimensions in mm.

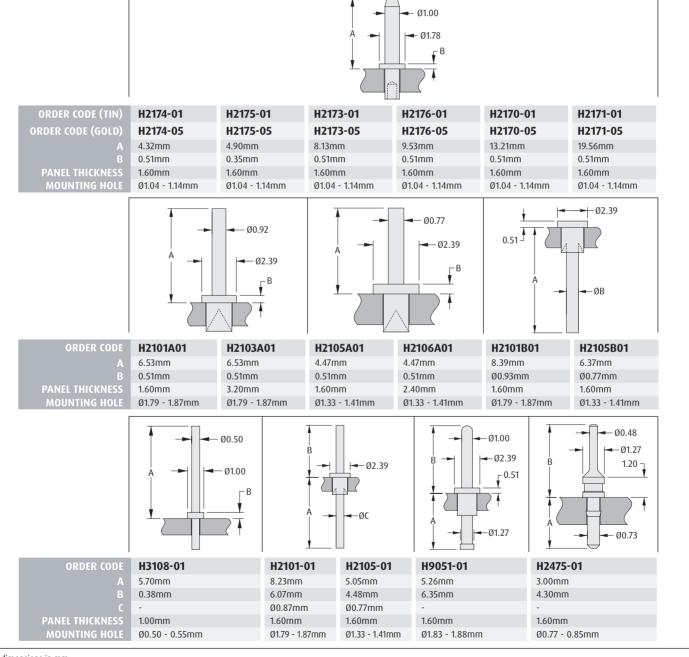
HARWIN

Turned Terminals

- Material: Brass with tin plating also available in gold plating for the 1mm chamfered terminal pins (H217x series).
- Retention by swaging feature available.
- For swaging tool, change order code prefix to Z, and suffix to 00 (example Z2174-00).
- Suitable for a variety of PCB thicknesses from 1mm to 3.2mm.

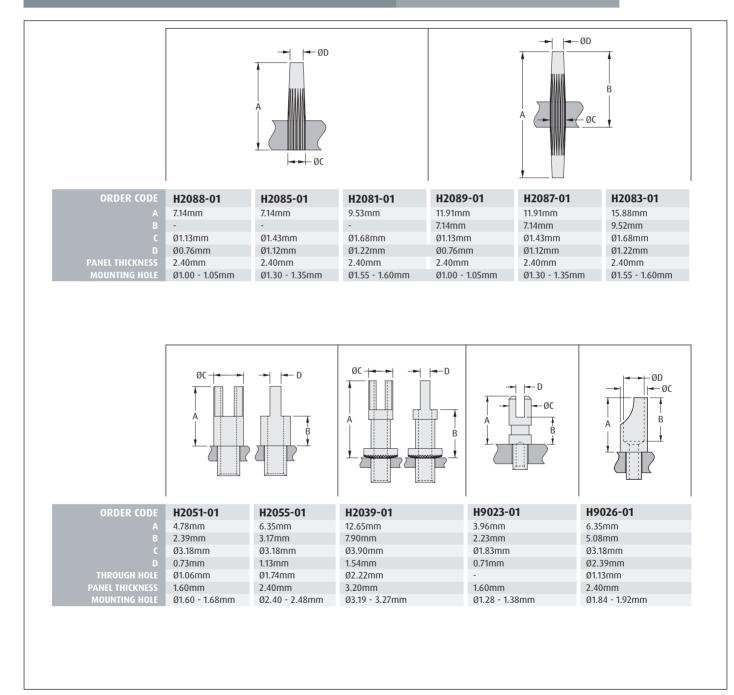


IARWIN



Turned Terminals

- Material: Brass with tin plating.
- Retention by swaging feature available.
- ✤ For swaging tool, change order code prefix to Z, and suffix to 00 (example Z2051-00).
- Suitable for a variety of PCB thicknesses from 1.6mm to 3.2mm.



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All dimensions in mm.

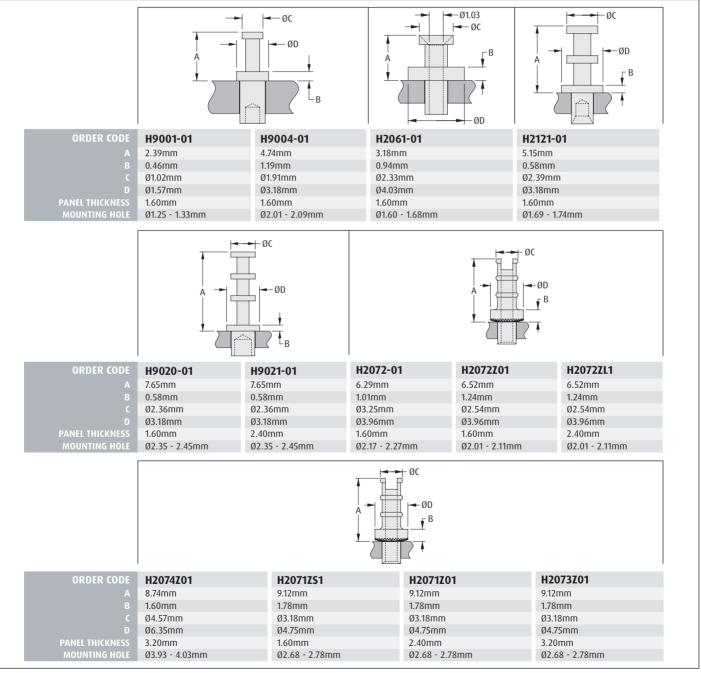


HARWIN

Turned Terminals

- Material: Brass with tin plating.
- Retention by swaging feature available.
- For swaging tool, change order code prefix to Z, and suffix to 00 (example Z9001-00).
- Suitable for a variety of PCB thicknesses from 1.6mm to 3.2mm.







Metric Spacers

Clearance Spacers

- Standard lengths available from 3 to 30mm.
- Brass spacers: base material is free-machining brass, with nickel plating.
- Aluminium spacers: supplied with a clear passivation finish to prevent oxidation.
- Plastic material: Nylon 66 UL94V-2.



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SPACERS

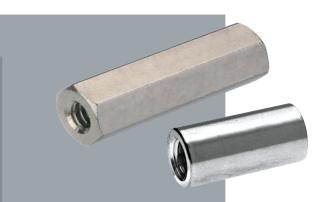
CLEARANCE FOR M4 THREAD CLEARANCE FOR M3 THREAD Materials Materials Base material: Brass, Aluminium or Plastic **Base material:** Brass or Plastic Finish Finish Brass: Nickel Brass: Nickel Aluminium: Clear Passivate Ø6.35 (Brass) Ø6.30 (Plastic) Ø4.76 (Brass) Ø5.00 (Aluminium, Plastic) Length Length Ø3.30 (Brass) Ø4.40 (Brass) Ø3.20 (Alumínium, Plastic) Ø4.20 (Plastic) **HOW TO ORDER HOW TO ORDER** R30 - 6 XX XX XX **R40 - 6 XX XX XX SERIES CODE SERIES CODE** MATERIAL MATERIAL 01 Brass 00 Brass Aluminium 20 71 Plastic 70 Plastic LENGTH (mm) LENGTH (mm) 03 to 16, 18, 20, 25, 30 Brass, Aluminium 03 to 16, 18, 20, 25, 30 Brass 03 to 16, 18, 20, 25 Plastic 03, 05 to 08, 10 to 12, 15, 18 Plastic FINISH FINISH Nickel (Brass only) 02 02 Nickel (Brass only) 14 Passivation (Aluminium only) 94 White (Plastic only) 94 White (Plastic only)

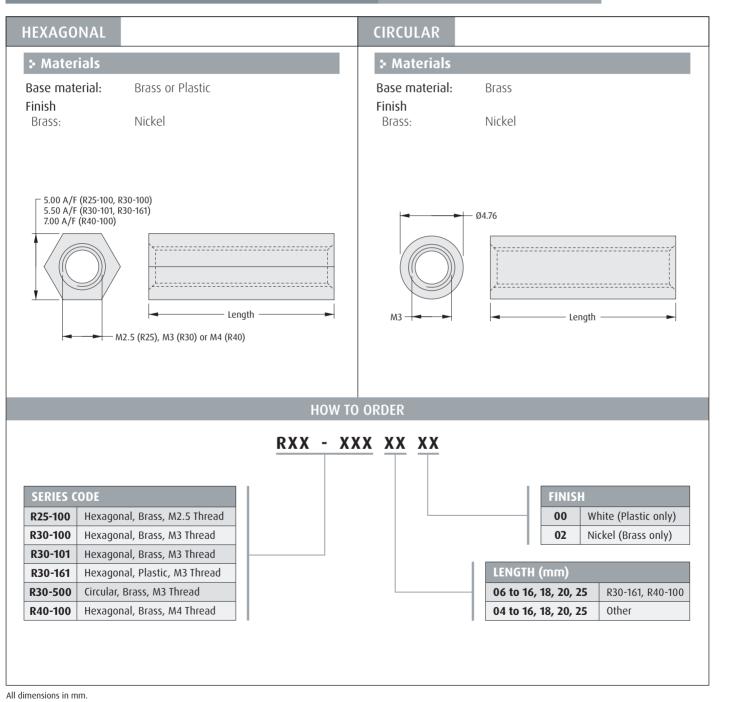


Metric Spacers

Threaded Female Spacers

- Available in a variety of standard body lengths.
- Brass spacers: base material is free-machining brass, with nickel plating.
- Plastic material: Nylon 66 UL94V-2.
- Longer thread lengths may not be threaded through the complete length, but have female threads at both ends.





Metric Spacers

Threaded Male Pillars

- Available in a choice thread sizes, with a variety of standard body lengths.
- Base material is free-machining Brass, with nickel plating.



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SPACERS

