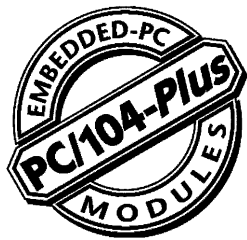
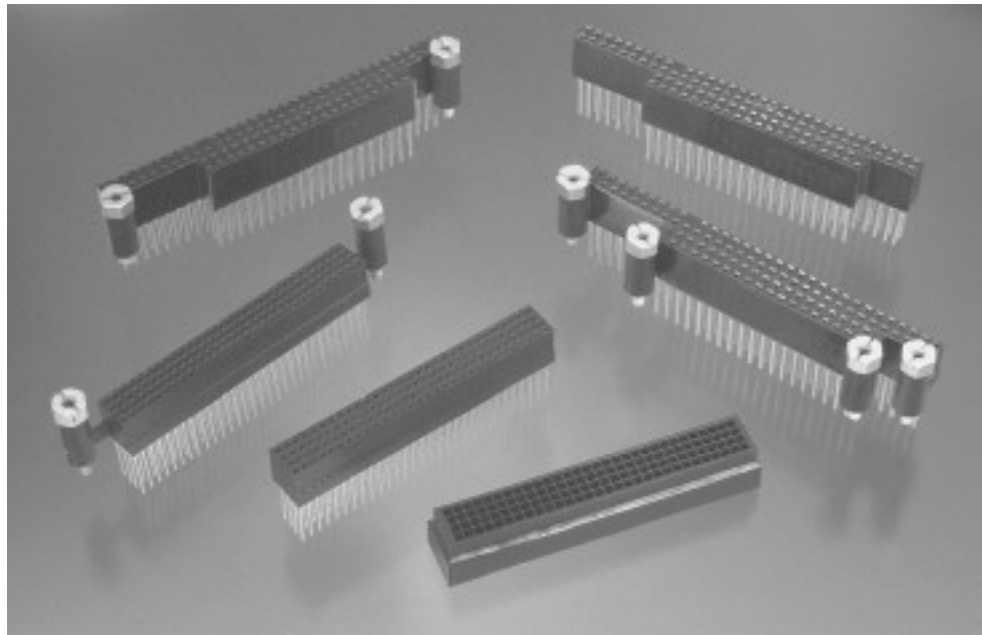


PC/104 and PC/104-Plus Connectors

Product Facts

- Press fit design — eliminates hand soldering
- Unitized PC/104 connector assembly — eliminates two piece (64 pin & 40 pin) configuration
- Integral board spacers with captive hardware — eases & improves assembly efficiency while minimizing stocked hardware
- “Flat-rock” insertable — no need for complex insertion tooling
- Recognized by Underwriters' Laboratories to US and Canadian standards  file No. E28476
- Fully compliant with PC104 & PC104-Plus standards



The PC/104 and PC/104-Plus connectors are industry standard product offerings which comply with the interconnection requirements defined by the PC/104 organization (<http://www.pc104.org>)

Both products are designed specifically for “flat-rock” press-fit installation for ease of application. Solder version is also available.

Optional integral standoffs minimize the customer’s system assembly time.

The Tyco Electronics offering of the standard PC/104 product is a unitized connector rather than the two piece, 40 and 64 position connectors currently on the market. Customer needs to stock and apply only one part number rather than two.

Performance Specifications

Electrical Characteristics

Meets requirements of PC/104 and PC/104-Plus standards

Nominal Resistance — 10 milliohms maximum, Δ R

Insulation Resistance — 1000 megohms minimum

Dielectric Withstanding Voltage — 500 VAC for 1 min. at sea level

Mechanical Characteristics

Meets requirements of PC/104 and PC/104-Plus standards

Current — Signal application only

Temperature — -55° to 105°C

Material and Finish

Housing — Black Thermoplastic, UL 94V-0

Contact — Phosphor Bronze, Full Gold all over Nickel (stackthrough), Gold on mating end, Tin-Lead on PCB tail all over Nickel (non-stackthrough)

Need more information?

Call Technical Support 1-800-522-6752:

Technical Support is staffed with specialists well versed in all Tyco Electronics products. The Center can provide you with:

- Technical Support
- Catalogs
- Technical Documents
- Tyco Electronics Authorized Distributor Locations

Technical Documents

Product Specifications

108-1956

Application Specifications

114-13021

Connector	Centerline	Position
PC/104	.100 2.54	104*
PC/104 Plus	.079 2.0	120**

*Two circuits plugged per PC/104 specification. Other options available.

**One circuit plugged per PC/104-Plus specification.

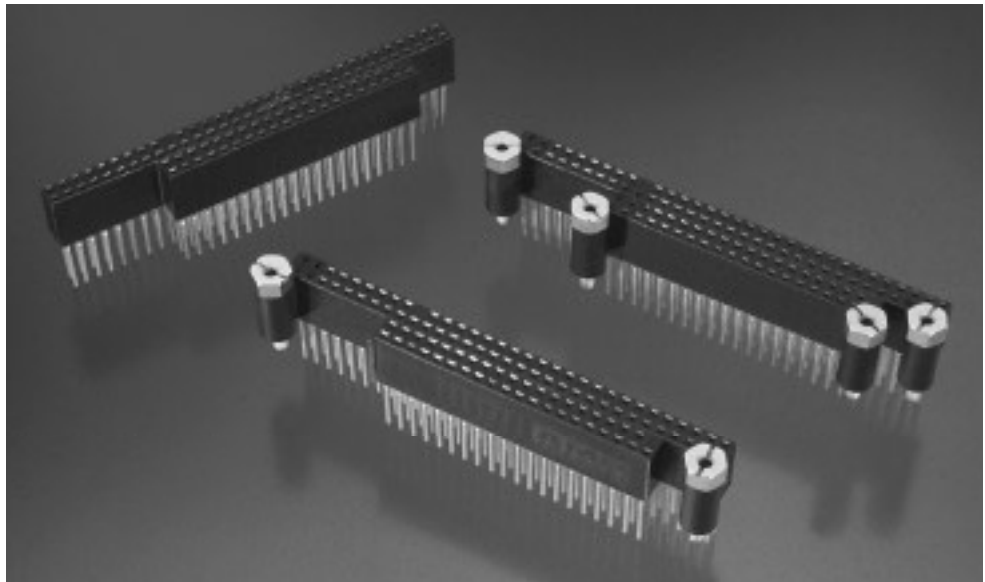
PC/104, Press-Fit

Material and Finish

Housing — High Temperature, Glass filled Nylon, Black

Contacts — Phosphor Bronze, 0.000381 [.000015] min. Gold on mating receptacle end, 0.000130 [.000005] min. Gold on remainder, all over 0.001270 [.00005] Nickel (stackthrough); 0.000381 [.000015] min. Gold on mating receptacle end, 0.00254 [.0001] bright Tin-lead on remainder, all over 0.001270 [.00005] Nickel (non-stackthrough)

Screwlocks — Steel, Clear Chromate over Zinc

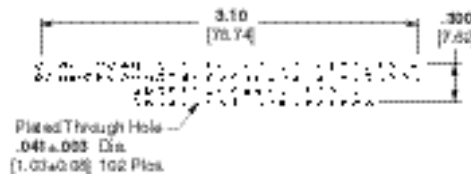
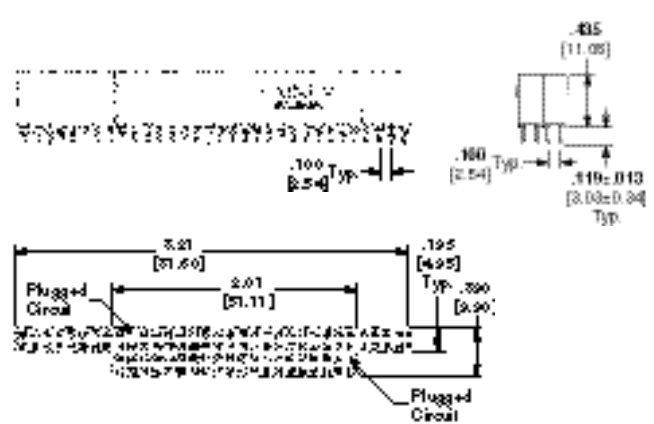
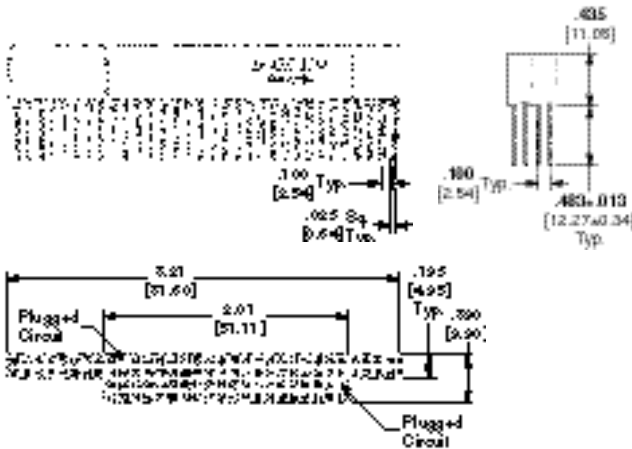


Part No. 1375795-1 (keyed)
Part No. 1375795-2 (unkeyed)

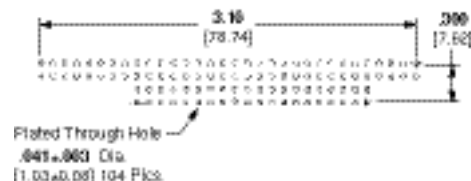
Stackthrough, No Standoffs

Part No. 1375796-1(keyed)
Part No. 1375796-2 (unkeyed)

Non-Stackthrough, No Standoffs



Keyed



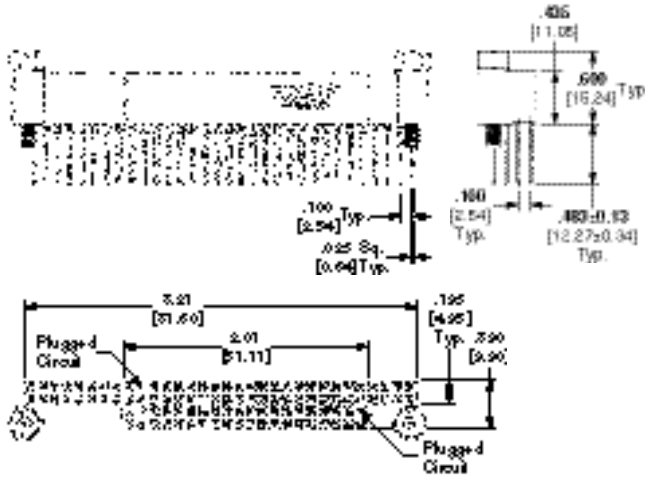
Unkeyed

Recommended PC Board Layout



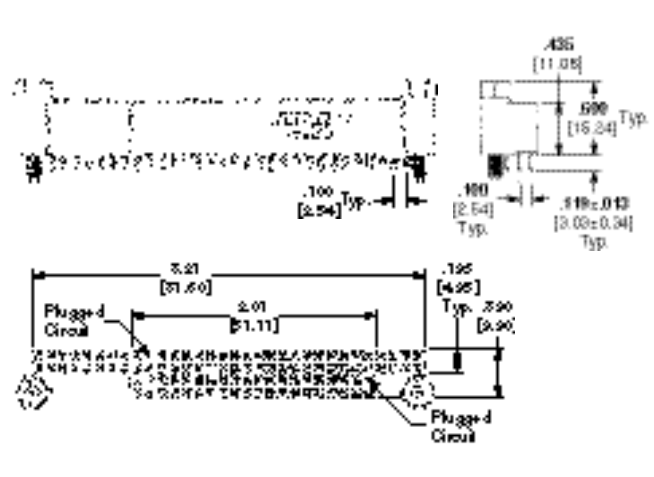
Part No. 1375793-1 (keyed)
Part No. 1375793-2 (unkeyed)

Stackthrough, 2 Standoffs



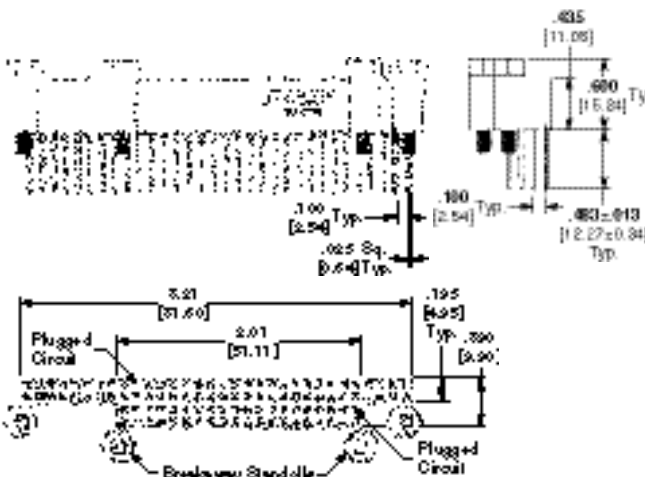
Part No. 1375794-1 (keyed)
Part No. 1375794-2 (unkeyed)

Non-Stackthrough, 2 Standoffs



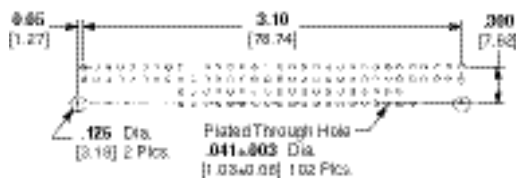
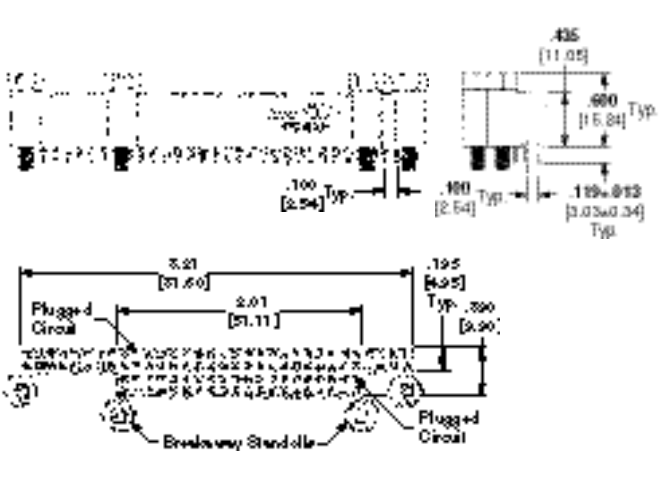
Part No. 1375791-1 (keyed)
Part No. 1375791-2 (unkeyed)

Stackthrough, 4 Standoffs



Part No. 1375792-1 (keyed)
Part No. 1375792-2 (unkeyed)

Non-Stackthrough, 4 Standoffs



Keyed



Unkeyed

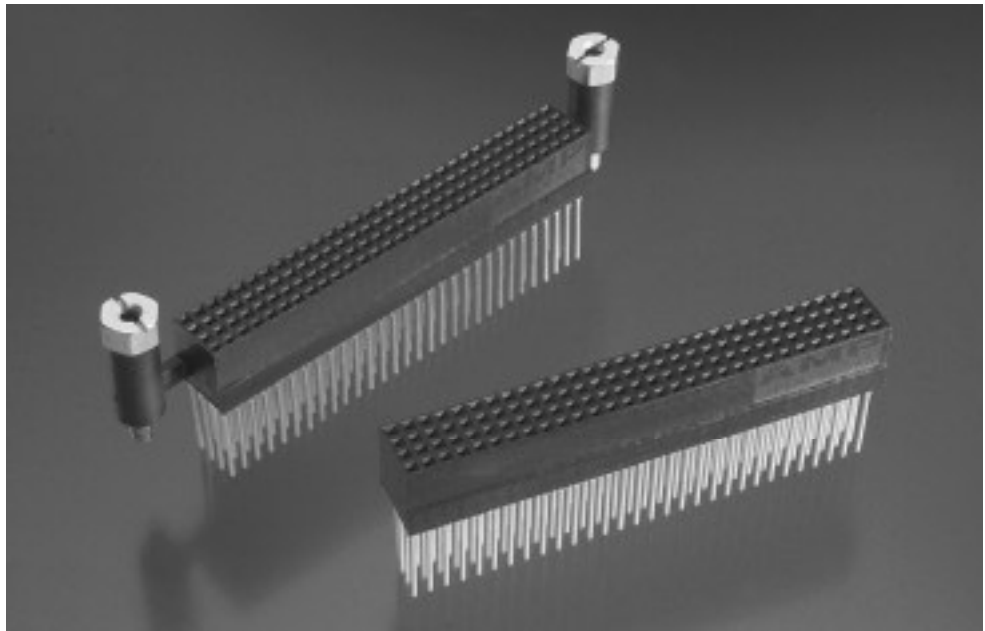
Recommended PC Board Layout

Material and Finish

Housing — High Temperature, Glass filled Nylon, Black

Contacts — Phosphor Bronze, 0.000381 [.000015] min. Gold on mating receptacle end, 0.000130 [.000005] min. Gold on remainder, all over 0.001270 [.00005] Nickel (stackthrough); 0.000381 [.000015] min. Gold on mating receptacle end, 0.00254 [.0001] bright Tin-lead on remainder, all over 0.001270 [.00005] Nickel (non-stackthrough)

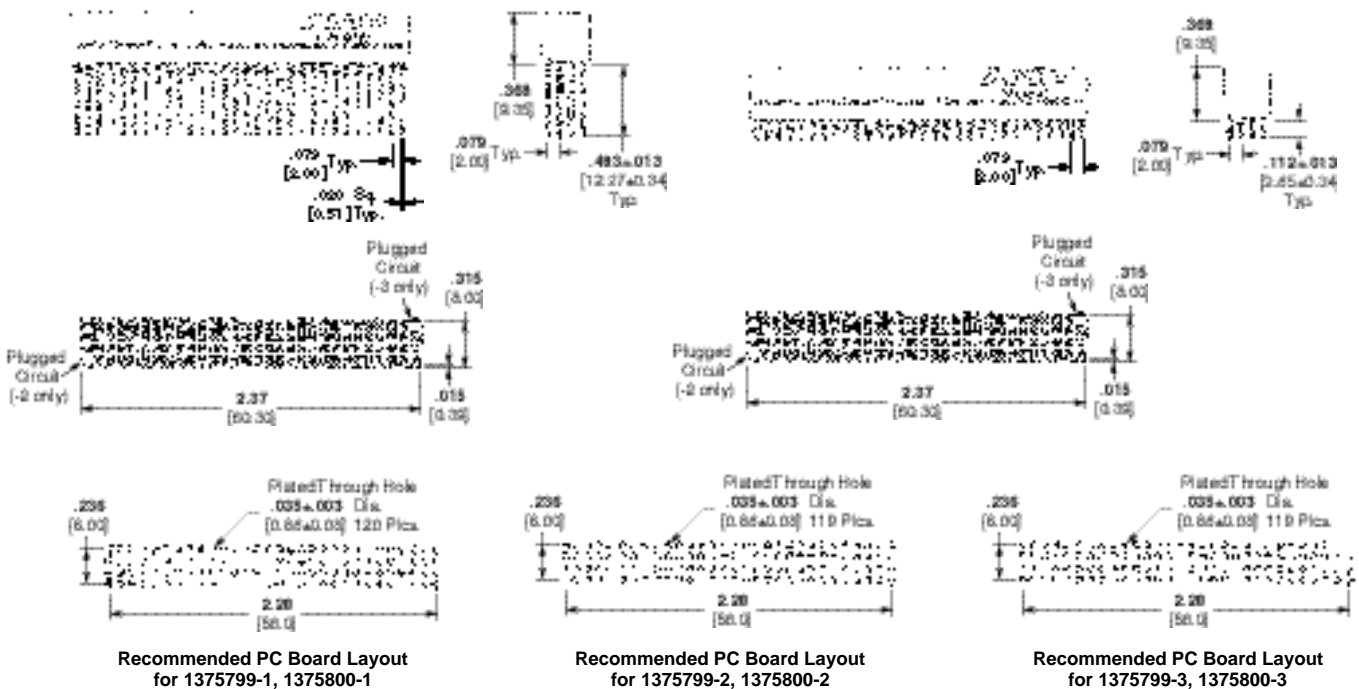
Screwlocks — Steel, Clear Chromate over Zinc



Part No. 1375799-1 (unkeyed)
Part No. 1375799-2
 (keyed-A1) per PC/104-Plus specification
Part No. 1375799-3
 (keyed-D30) per PC/104-Plus specification
 Stackthrough, No Standoffs

Part No. 1375800-1 (unkeyed)
Part No. 1375800-2
 (keyed-A1) per PC/104-Plus specification
Part No. 1375800-3
 (keyed-D30) per PC/104-Plus specification
 Non-Stackthrough, No Standoffs

PC/104 and PC/104-Plus Connectors



PC/104-Plus, Press-Fit (Continued)

Part No. 1375798-1

(unkeyed)

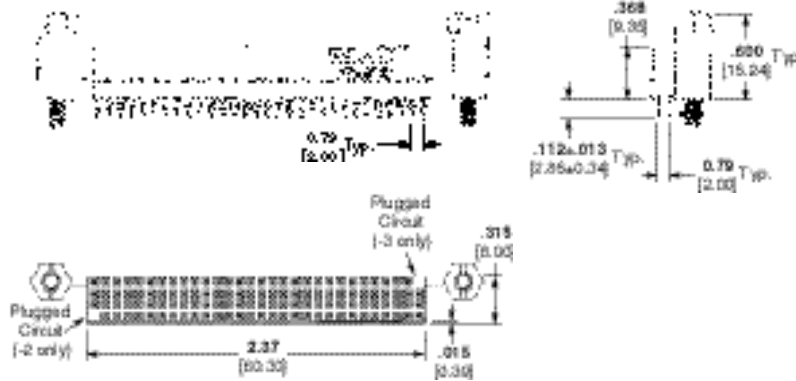
Part No. 1375798-2

(keyed-A1) per PC/104-Plus specification

Part No. 1375798-3

(keyed-D30) per PC/104-Plus specification

Non-Stackthrough,
2 Standoffs



Part No. 1375797-1

(unkeyed)

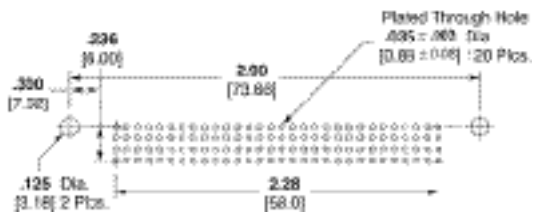
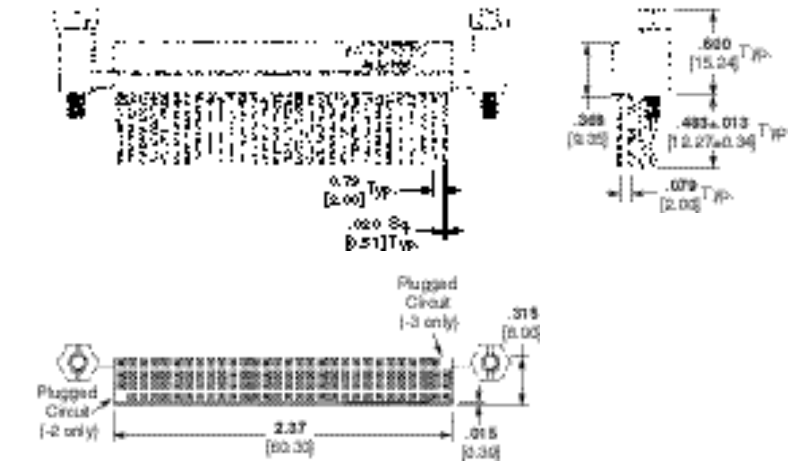
Part No. 1375797-2

(keyed-A1) per PC/104-Plus specification

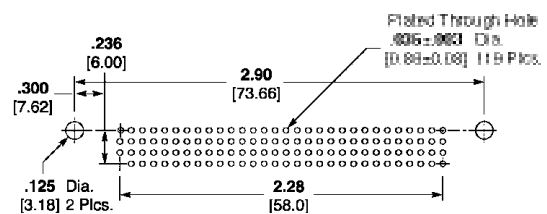
Part No. 1375797-3

(keyed-D30) per PC/104-Plus specification

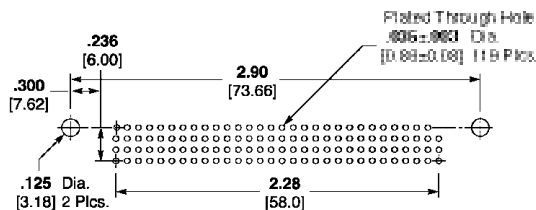
Stackthrough, 2 Standoffs



Recommended PC Board Layout
for 1375797-1, 1375798-1



Recommended PC Board Layout
for 1375797-2, 1375798-2



Recommended PC Board Layout
for 1375797-3, 1375798-3

PC/104, Solder

Material and Finish

Housing — High Temperature, Glass filled Nylon, Black

Contacts — Phosphor Bronze, 0.000381 [.000015] min. Gold on mating receptacle end, 0.000130 [.000005] min. Gold on remainder, all over 0.001270 [.00005] Nickel (stackthrough), 0.000381 [.000015] min.

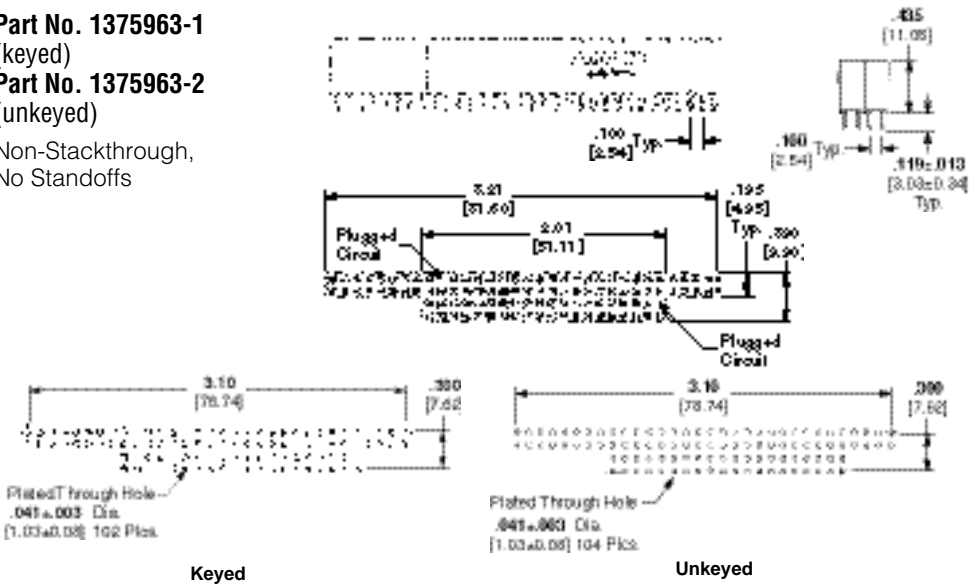
Gold on mating receptacle end, 0.00254 [.0001] bright Tin-lead on remainder, all over 0.001270 [.00005] Nickel (non-stackthrough)

Screwlocks — Steel, Clear Chromate over Zinc

Part No. 1375963-1 (keyed)

Part No. 1375963-2 (unkeyed)

Non-Stackthrough,
No Standoffs



Recommended PC Board Layout

Part No. 1375961-1 (keyed)

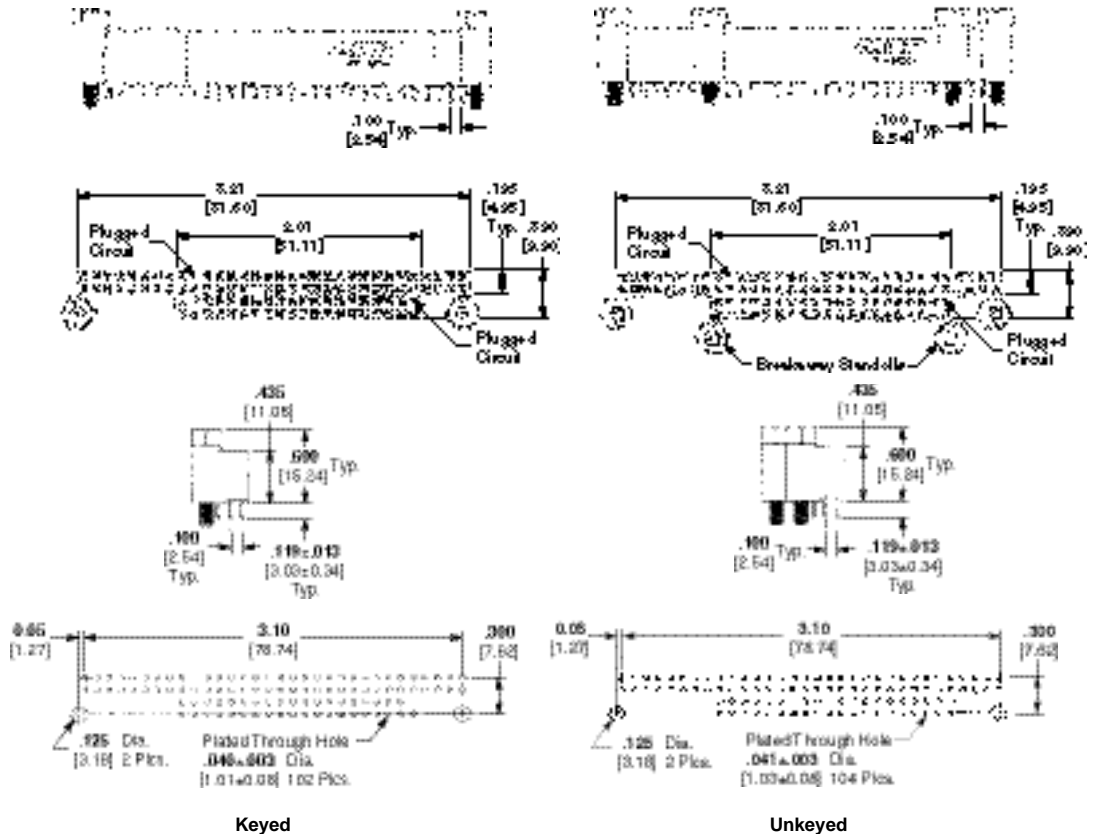
Part No. 1375961-2 (unkeyed)

Non-Stackthrough, 2 Standoffs

Part No. 1375959-1 (keyed)

Part No. 1375959-2 (unkeyed)

Non-Stackthrough, 4 Standoffs



Recommended PC Board Layout

PC/104 and PC/104-Plus Connectors



PC/104-Plus, Solder (Continued)

Material and Finish

Housing — High Temperature, Glass filled Nylon, Black

Contacts — Phosphor Bronze, 0.000381 [.000015] min. Gold on mating receptacle end, 0.000130 [.000005] min. Gold on remainder, all over 0.001270 [.00005] Nickel (stackthrough), 0.000381 [.000015] min.

Gold on mating receptacle end, 0.00254 [.0001] bright Tin-lead on remainder, all over 0.001270 [.00005] Nickel (non-stackthrough)

Screwlocks — Steel, Clear Chromate over Zinc

Part No. 1375967-1 (unkeyed)

Part No. 1375967-2 (keyed-A1) per PC/104-Plus specification

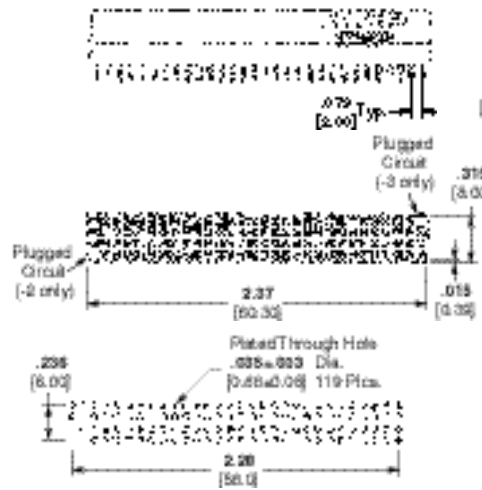
Part No. 1375967-3 (keyed-D30) per

PC/104-Plus specification

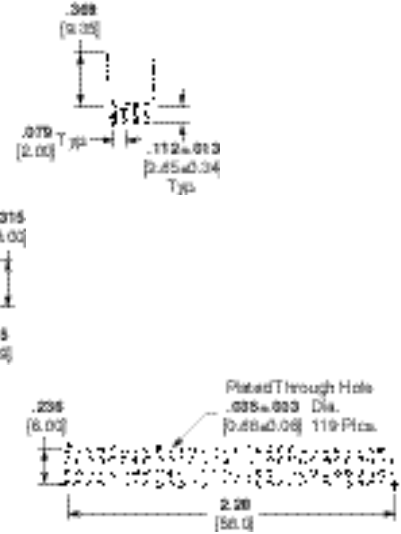
Non-Stackthrough, No Standoffs



Recommended PC Board Layout for 1375967-1



Recommended PC Board Layout for 1375967-2



Recommended PC Board Layout for 1375967-3

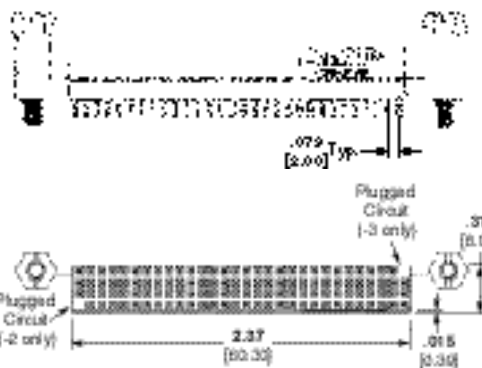
Part No. 1375965-1 (unkeyed)

Part No. 1375965-2 (keyed-A1) per PC/104-Plus specification

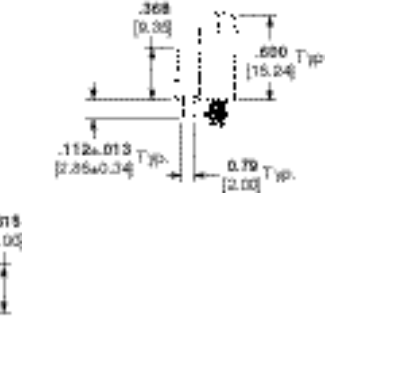
Part No. 1375965-3 (keyed-D30) per

PC/104-Plus specification

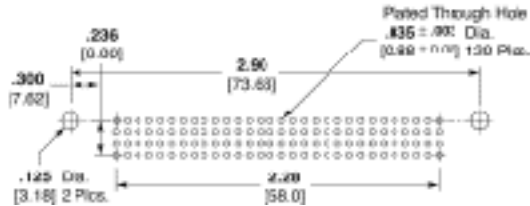
Non-Stackthrough, 2 Standoffs



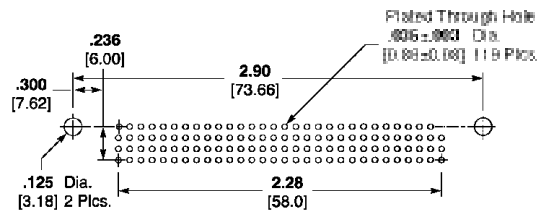
Recommended PC Board Layout for 1375965-1



Recommended PC Board Layout for 1375965-2



Recommended PC Board Layout for 1375965-3



Recommended PC Board Layout for 1375965-3

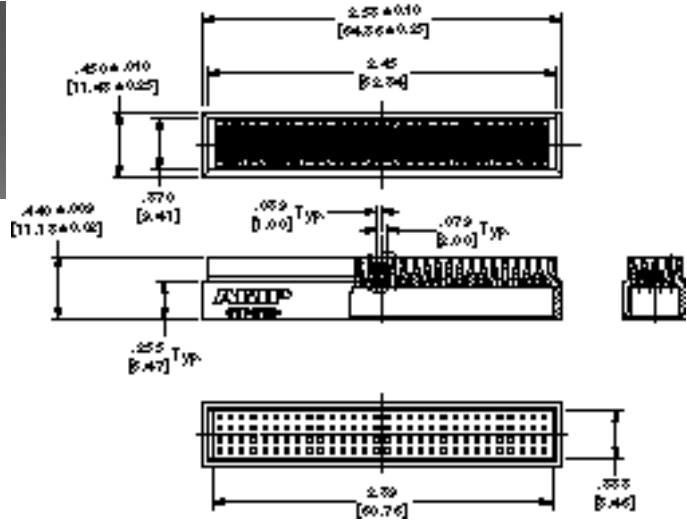
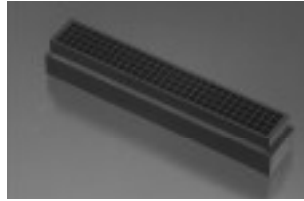
Accessories

Part No. 1375801-1

Shroud, PC/104-Plus

Material and Finish

Housing — PBT, Black

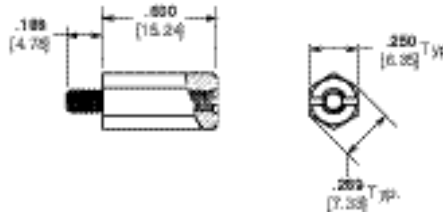


Part No. 1445005-1

Standoff

Material and Finish

Steel, Clear Chromate over Zinc

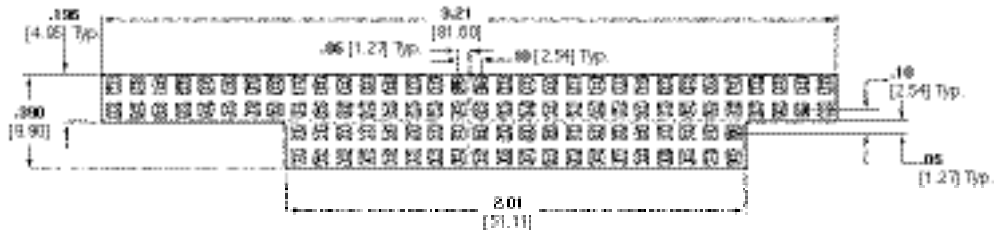


Part No. 1445251-1

Organizer, PC/104

Material and Finish

Polyester, PBT, Black



Kit Packaging Part Numbers

Part Number	Component Part Number		
	Connector Assembly	Organizer	Style
1445441-1	1375795-1	1445251-1	Keyed
1445441-2	1375795-2	1445251-1	Unkeyed
1445440-1	1375793-1	1445251-1	Keyed
1445440-2	1375793-2	1445251-1	Unkeyed
1445439-1	1375791-1	1445251-1	Keyed
1445439-2	1375791-2	1445251-1	Unkeyed



Part No. 1445441-1



Part No. 1445440-1



Part No. 1445439-1