SIDA: 1/3

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ELFA artikelnr.

42-707-08 USB typ A 42-707-24 USB stackad typ A

42-707-40 USB tvp B

AMP Connector System for Universal Serial Bus (USB)

Introduction

Product Facts

- Plug and Play capability
- Hot pluggable, permits attaching or detaching peripherals without power down or reboot
- Single 4-position connector, polarized for proper orientation
- Complete family of boardmount receptacles, including right-angle, thru-hole, thru-hole type B, side-byside, and stacked
- Receptacle housings are made of UL 94V-0 rated LCP, natural color
- Shells are made of copper alloy, plated bright tin
- Cable mount overmold plug kits for both standard and type B applications
- Plug contacts made of brass, plated gold over palladium nickel on the mating end. bright tin-lead on the termination end, nickel underplating
 - (Contacts must be ordered separately)
- Full complement of termination tooling
- Consolidates serial parallel, keyboard, mouse and game ports
- **■** Compatible with asynchronous and isochronous data transfer methods
- **■** Compatible with Windows '95 and Windows NT operating systems
- Outside-the-box for user friendly flexibility for attaching external peripherals or reconfiguring your system
- Broad industry support from a consortium of computer and peripheral equipment manufacturers

Produced under a Quality **Management System certified** to ISO 9001

A copy of the certificate is available upon request



Performance Characteristics

AMP USB Connector System:

Voltage Rating — **Current Rating -**Temperature Rating —

Termination Resistance —

Insulation Resistance -Dielectric withstanding Voltage -Capacitance — Durability -Mating Force — Unmating Force —

30 VAC (rms) Signal application only, 1 amp per contact -55°C to 85°C (unless limited by cable or overmold)

30 milliohms, max. 1000 megohms, min.

750 VAC at sea level 2 picofarads, max. 1500 cycles

1 oz. [35 N] per contact, max. .286 oz. [10 N] per contact, max.

Universal Serial Bus:

Speed — Max. No. of Peripherals -Max. Distance — Data Transfer —

12 Mb/s

16.4 ft. [5 m], max.

Asynchronous and Isochronous

The AMP Connector System will accommodate the two differentially driven data wires that provide bi-directional, simultaneous signals for full speed 12 Mbps or for low speed 1.5 Mbps used in Universal Serial Bus (USB) Systems.

The AMP USB System is a complete interconnection technology for I/O devices, including: keyboards, mice, game ports, serial port devices, digital audio, printers, scanners, modems, joy sticks, and other telecommunication devices.

Designed for outsideof-box, user friendly applications, the AMP system consists of a single 4-position boardmount receptacle and mating cable mount overmolded

Boardmount receptacles are available in standard, Type B, stacked and sideby-side configurations

adding to the system's versatility to meet all USB applications.

The AMP USB system is completely compatible with today's need for plug-andplay, as well as providing hot pluggability. Now there is no need to shut-down vour system to modify your system. With the AMP hot pluggable interconnection system you can mix and match peripheral devices while your system is powered-up.

The AMP USB system consists of a pc boardmount receptacle and mating overmolded cable plug connector. Pcb receptacles are made of IR reflow solder compatible LCP thermoplastic material, tin-plated copper alloy shells, and pre-inserted phosphor bronze, gold-over-nickel plated contacts.

Overmolded cable plugs are made of UL 94V-0 rated thermoplastic with tin-plated copper shells.

Cable contacts are brass, gold-over-nickel plated, and must be ordered separately.

AMP offers a complete set of tooling for cable contact terminations to meet your production requirements.

AMP and AMP FAX are trademarks.

Windows '95 and Windows NT are trademarks of Microsoft Corporation.

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SIDA: 2/3

Receptacle Assemblies

Series A, 4-Position, Right-Angle Receptacle — Thru-Hole

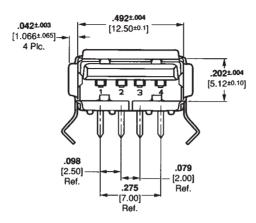
Part No. 787616-1 (Solder tail length: .112 [2.84]) Part No. 787616-2 (Solder tail length: .090 (2.291)

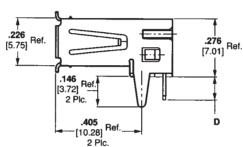
Material and Finish:

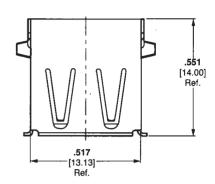
Housing—LCP, UL rated 94V-0, natural Shell—Copper Alloy, plated .197 [0.005] bright tin min. over .010 [0.0025] min. copper

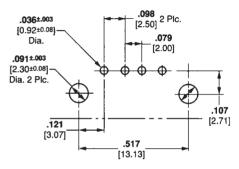
Contacts—Copper Alloy, plated .000003 [0.000076] min. gold over .000030 [0.00076] min. palladiumnickel on the mating end, .0015 [0.38] min. tin lead on solder tails, all over .000050 [0.00127] min. nickel underplating

Recommended pc board thickness: .062 [1.57]









PC Board Mount Dimensions

Series A, Stacked, 4-Position. Right-Angle Receptacle -Thru-Hole

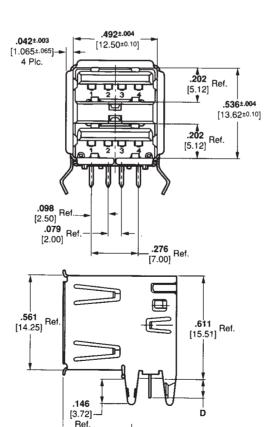
Part No. 787617-1 (Solder tail length: .112 [2.84]) Part No. 787617-2 (Solder tail length: .090 [2.29])

Material and Finish:

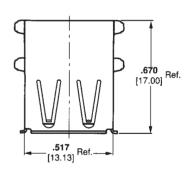
Housing—LCP, UL rated 94V-0, natural Shell—Copper Alloy, plated .197 [0.005] bright tin min. over .010 [0.0025] min. copper

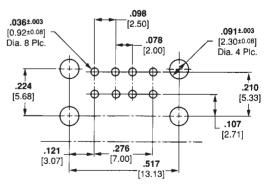
Contacts—Copper Alloy, plated .000003 [0.000076] min. gold over .000030 [0.00076] min. palladiumnickel on the mating end, .0015 [0.38] min. tin lead on solder tails, all over .000050 [0.00127] min. nickel underplating

Recommended pc board thickness: .062 [1.57]



[10.28] Ref.





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SIDA: 3/3

Receptacle Assemblies (Continued)

Series B, USB 4-Position, Right-Angle Receptacle — Thru-Hole

Part No. 787780-1

Material and Finish:

Housing—LCP, UL rated 94V-0, natural **Shell**—Copper Alloy, plated .197 [0.005] bright tin min. over .010 [0.0025] min. copper

Contacts—Copper Alloy, plated .000003 [0.000076] min. gold over .000030 [0.00076] min. palladiumnickel on the mating end, .0015 [0.38] min. tin lead on solder tails, all over .000050 [0.00127] min. nickel underplating

Recommended pc board thickness: .062 [1.57]

