5. 6330 MICRO DESIGN-IN MODULE

The RangeLAN2 6330 Micro Design-in Module is an integrated hardware/software package that allows developers to easily incorporate sophisticated wireless LAN networking capabilities into their products. It is the smallest and lightest high-performance wireless LAN module available, designed to bring wireless LAN connectivity to a new class of mobile computing devices.

The RangeLAN2 6330 Micro Design-in Module includes a 2.4 GHz frequency hopping spread spectrum radio and network controller in a compact single-piece package. The 6330 offers sophisticated wireless networking features including high performance, roaming, and power management. It supports industry standard interfaces to assure quick and inexpensive integration and compatibility with all RangeLAN2 and Wireless LAN Interoperability Forum devices.

5.1 Introduction

This chapter details the specific issues related to the 6330 Micro Design-in Module.

5.2 Product Specification and Outline Drawing

Included at the end of **Section 5** are the Product Specification and the Outline Drawing for the 6330 Micro Design-in Module.

5.3 Interface Description

The 6330 Micro Design-in Module provides a 40 pin connector to the host for passing power, control, and data signals to the module. The pin-out is shown in the **PIN NUMBERS** section of the Product Specification.

The 6330 has been designed to interface to the host as an PC/ISA Memory-Mapped I/O device. The 6330 defaults to a 16-bit data bus, but will also operate as an 8-bit device with 8-bit hosts, as discussed in **Section 5.4**. The 6330 supports both normal write and read accesses, but the 6330 does not support DMA transfers.

The 6330 requires a minimal set of signals to operate, including data bus, chip select, address bus, and read / write strobes. The **INTERFACE PIN DESCRIPTION** section of the Product Specification details the inputs and outputs for the module.

The chip select signal, CS#, is used to decode addresses destined for the 6330. The 6330 requires an address space of 8 I/O registers, that can be located on any 8 byte boundary

decoded with the CS# signal. The 3-bit address bus is used to identify the specific I/O register. The 6330 uses only 5 I/O registers and all of them can be specified using an even address value (SA<0> = 0). More detail information of these registers are described in **Section 12.4**.

5.3.1 Interrupts and I/O Ports

The drivers for the 6330 Micro Design-in Module support the following ISA Bus specification interrupts (IRQ3, IRQ4, IRQ5, IRQ7, IRQ10, IRQ12 and IRQ15). A single interrupt output signal is provided by the 6330, and must be connected to the corresponding interrupt line on the platform's interface bus. For example, the default interrupt for the standard 6330 driver is IRQ15. The 6330 Test Adapter board is configured to connect the PC ISA bus IRQ15 to the 6330's INTR# interrupt output. This allows the interrupt of the 6330 to be interpreted as IRQ15 by the PC and driver.

The 6330 requires an address space of 8 consecutive bytes that is considered to be an I/O port to an XT or AT compatible platform. The drivers for the 6330 Micro Design-in Module support the following starting addresses for I/O ports: 100, 120, 140, 218, 270, 280, 290, 298, 2A0, 2A8, 2E0, 300, 310, 358, 360, and 368. The platform must decode the selected I/O port range and provide a chip select (CS#) to the 6330. The driver must be configured for the selected I/O port range also.

5.4 8-Bit vs.16-Bit Data Operation

Both 8-bit and 16-bit data operations are supported. The 6330 can be configured for the desired operation through the driver, by specifying Byte (8-bit) or Word (16-bit) operation. The standard drivers supplied with the 6330 automatically determine whether the host operates in 8-bit or 16-bit modes. When the driver is loaded by the host, the driver automatically performs a test to determine the mode. A 16-bit transfer to 6330 is first attempted. If the transfer between the driver and the 6330 is successful, 16-bit mode will be used. If the driver was not able to successfully write and subsequently read back from the upper byte of the data word, then 8-bit mode will be used. In either mode, SA<2..0> = 0H is used to access the I/O data register(s).

The section **Read and Write Operations** in the Product Specification describe the process for reading and writing to the 6330. Both operations are performed as I/O Accesses by the host. Differences between 8-bit transfers and 16-bit transfers are discussed. These read and write operations are consistent with the ISA bus specification.

5.5 Mechanical Issues

The 6330 has four mounting holes that are used for installing the module to the host with stand-offs. Sections 8.4 and 8.5 provide guidelines about the positioning of the 6330 relative to the enclosure and other components.

5.5.1 Outline Drawing and Dimensions

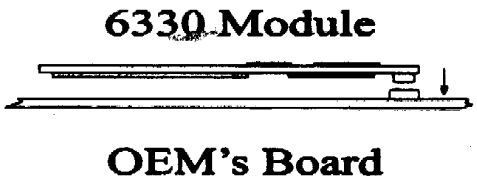
The 6330 outline drawing is shown at the end of this chapter.

5.5.2 Mating Connectors and Mounting Orientations

The 6330 OEM Module with the AMP connector supports a stacked mounting orientation, as shown in **Figure 5-1**.

The AMP connector #177986-1 on the 6330 OEM module mates with AMP connector #177983 or #179009 in stacked fashion. Please refer to the dimensional drawings for each part in the pages following. AMP can be contacted at 717-564-0100. AMP also offers a FAX-back number at 800-522-6752 (input a Part Number and receive back a drawing of the part).

Figure 5-1: 6330 OEM Module Mounting



If there are electrical components on the host platform that are mounted near the 6330 module, consider employing proper insulation or shielding to avoid crosstalk or shorting.

FILE

Insert 5-1: AMP Connector Catalog 65981

The AMP connector catalog that includes the information of the connectors described above is inserted in the following pages.

Product Facts

- For board stacking applications
- High density packaging on 0.8 [.031] centerline spacing
- Available sizes from 40 to 200 positions (in 20 position increments)
- Board stacking heights available from 5 [.197] to 16 [.630] (in 1 [.039] increments)
- Bellows type spring contacts are resistant to scooping and stubbing during mating and unmating
- Positioning bosses for proper on-board orientation
- Surface-mount holddown feature available upon request
- Produced under a Quality Management System certified to ISO 9001

A copy of the certificate is available upon request.

Technical Document

AMP Product Specification 108-5390

Performance Characteristics

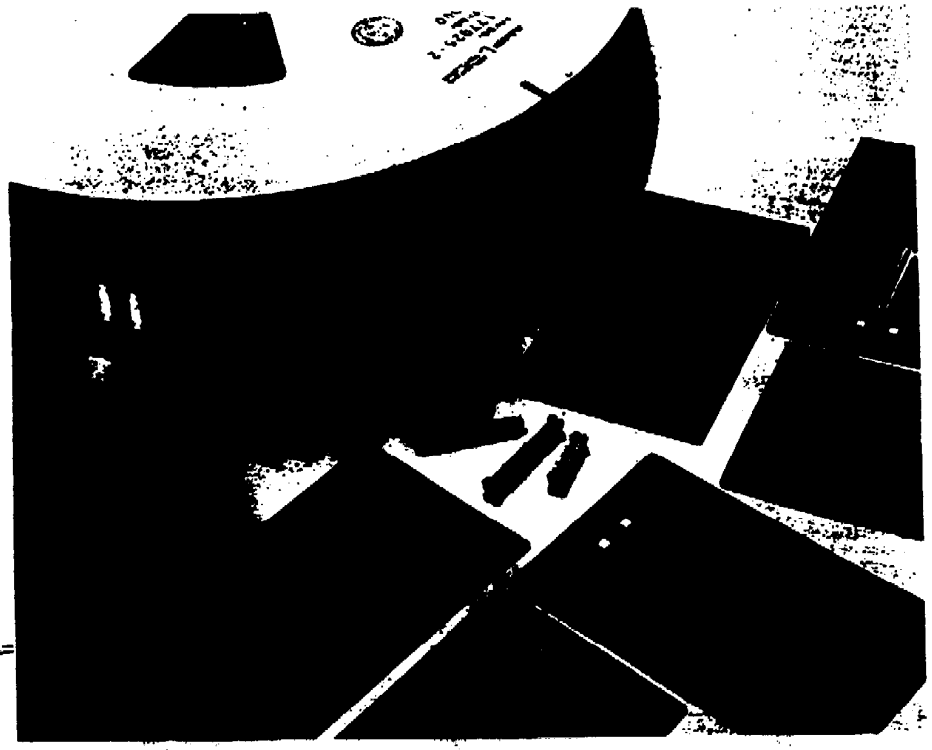
Voltage Rating: 100 VAC

Current Rating: .5 ampere

Contact Resistance: 30 milliohms max. (initial)

Dielectric Withstanding Voltage: 500 VAC (1 minute)

Operating Temperature: -40°C to +85°C (including terminal temperature rise)



AMP FH 0.8mm surface-mount connectors are designed for board stacking applications using subminiature connectors to meet today's electronic industry requirements for high density packaging.

It is possible to save more than 50% of the required board space when compared to conventional 1.27 [.050] centerline connectors.

FH 0.8mm connectors are ideally suited for application downsizing, such as PC's (Notebook, Palm Top, etc.) cellular telephones and other electronic equipment requiring miniature connector packaging.

Vertical board-mount plug and receptacle assemblies are available. By mating combinations of plug and receptacle assembly housing heights, board-to-board stack heights from 5 [.197] to 16 [.630] (in 1 [.039] increments) can be achieved.

The receptacle assemblies are preloaded with AMP's unique bellows-type spring contacts for reliable electrical connection with the plug assemblies.

Surface-mount solder tines permit fast assembly operation.

Need more information?

Call the AMP Product Information Center: **1-800-522-6752.**

The Product Information Center is staffed with specialists well versed in all AMP products. The Center can provide you with:

- Engineering Support
- Catalogs
- Technical Documents
- Product Samples
- AMP Authorized Distributor Locations
- AMP Fax Service ...24 Hours a Day

FILE

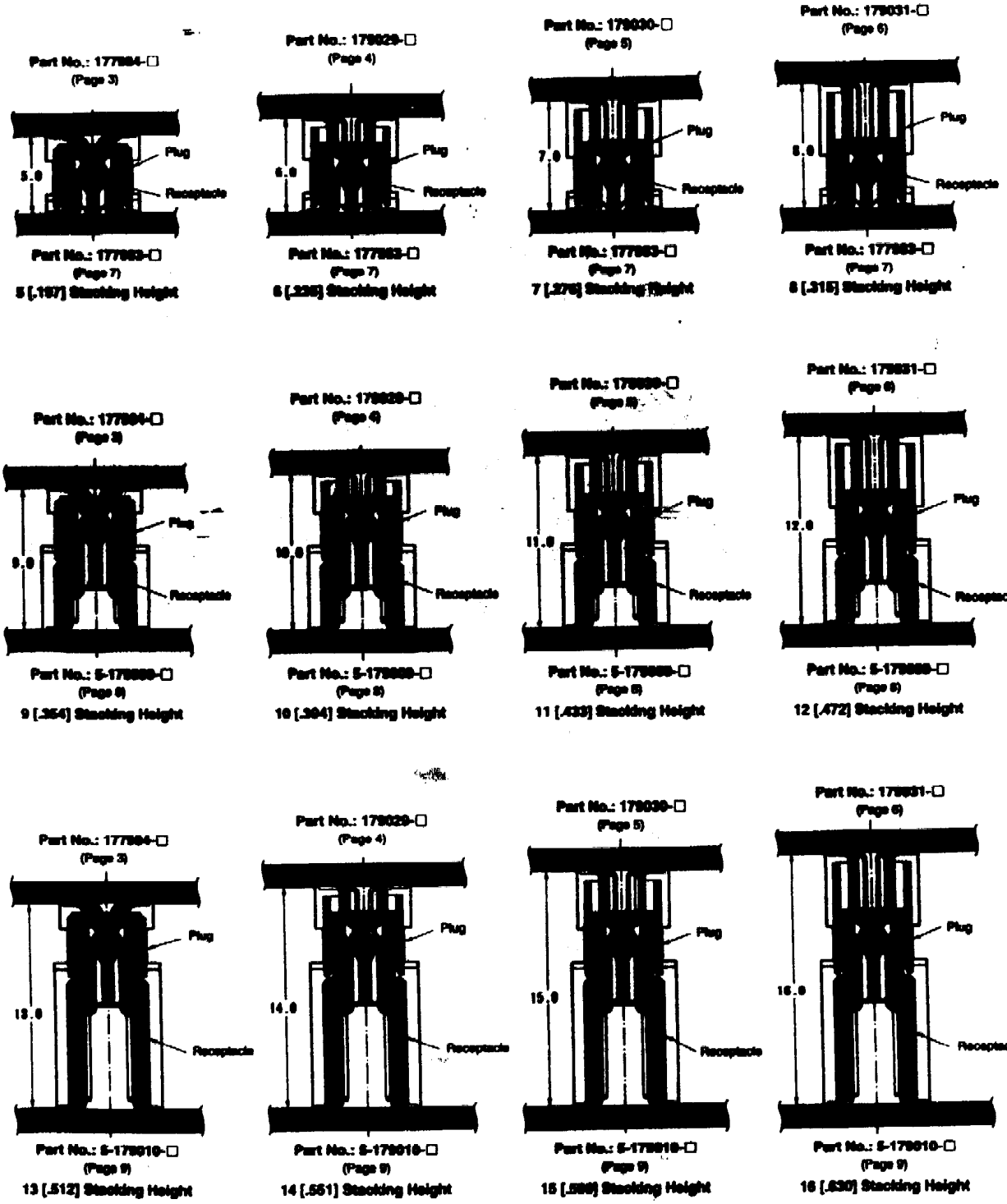
Dimensions are shown for reference purposes only.

Dimensions are in millimeters and inches unless specified otherwise. Values in brackets are equivalent U.S. customary units. Chart

For drawings, technical data or samples, contact your AMP sales engineer or call the AMP Product Information Center:

Specifications subject to change. Consult AMP Incorporated for latest specifications.

Board-to-Board Stacking Heights (By Plug/Receptacle Assembly Combinations)



Note: For specific dash nos. of sizes 40 to 200 positions (in 20-position increments), see pages 3 thru 9.

Vertical Plug Assemblies for 5 [.197], 9 [.354] and 13 [.512] Stacking Heights

5mm Plug

Material and Finish:

Housing — High temperature thermoplastic, natural color, 94V-0 rated

Contacts — Brass; duplex plated 0.00020 [.000008] min. gold on contact area, 0.00100 [.000039] min. tin-lead on solder area, with entire contact underplated 0.00130 [.000051] min. nickel

Related Product Data:

Performance Characteristics — page 1

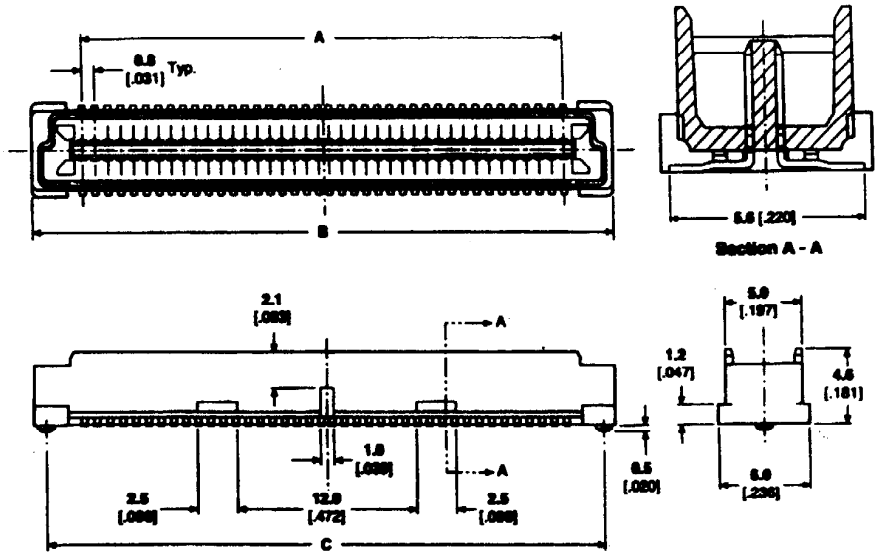
Stacking Height Combinations — page 2

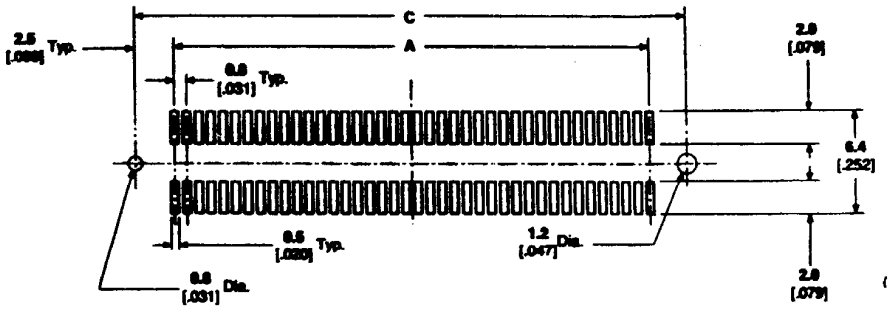
Mating Receptacle Assemblies — pages 7 thru 9

Technical Document:

AMP Product Specification 108-5390

Packaging — Tube





Recommended PC Board Layout

No. of Positions	Dimensions A	B	C	Plug Assembly Part Numbers Packaged in Tubes	Packaged on Tape*
40	15.20 .598	21.80 .858	20.20 .795	177984-1	177986-1
60	23.60 .913	29.80 1.173	28.20 1.110	177984-2	177986-2
80	31.20 1.228	37.80 1.488	36.20 1.425	177984-3	177986-3
100	38.80 1.543	46.80 1.803	44.20 1.740	177984-4	—
120	47.20 1.858	53.80 2.118	52.20 2.055	177984-5	—
140	55.20 2.173	61.80 2.433	60.20 2.370	177984-6	—
160	63.20 2.488	69.80 2.748	68.20 2.685	177984-8	—
200	79.20 3.118	85.80 3.378	84.20 3.315	1-177984-0	—

*With steel cover for automatic placement.

Vertical Plug Assemblies for 6 [.236], 10 [.394] and 14 [.551] Stacking Heights

6mm Plug

Material and Finish:

Housing — High temperature thermoplastic, natural color, 94V-0 rated

Contacts — Brass; duplex plated 0.00020 [.000008] min. gold on contact area, 0.00100 [.000039] min. tin-lead on solder area, with entire contact underplated 0.00130 [.000051] min. nickel

Related Product Data:

Performance Characteristics — page 1

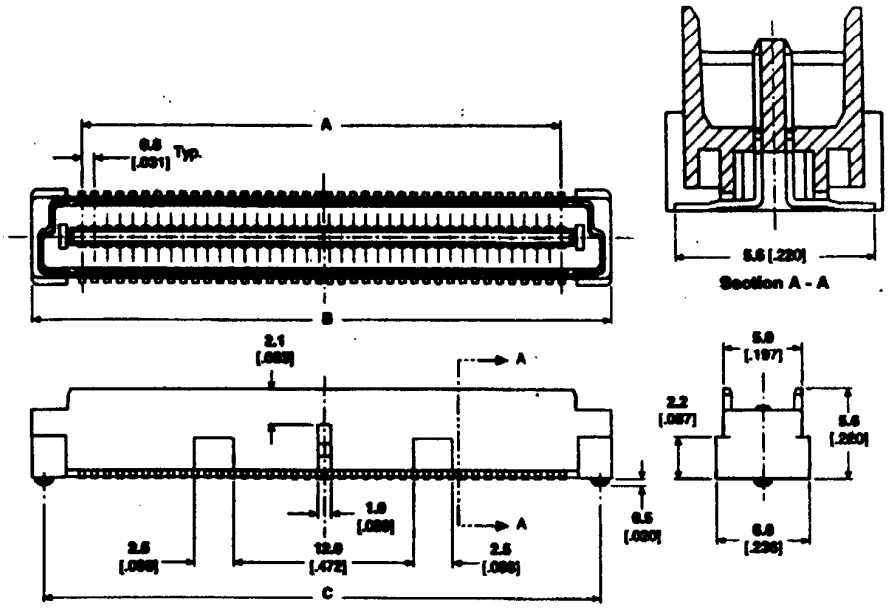
Stacking Height Combinations — page 2

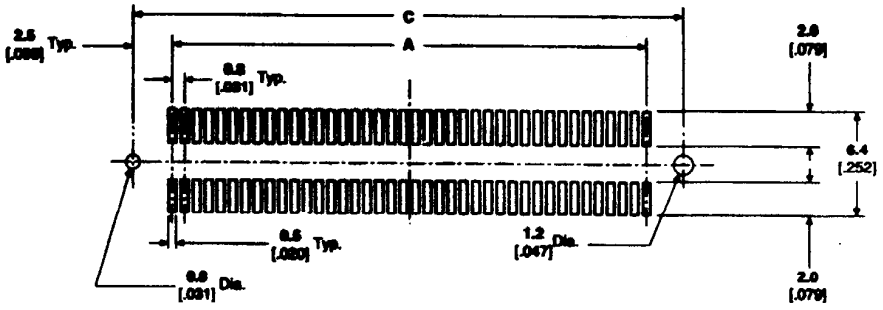
Mating Receptacle Assemblies — pages 7 thru 9

Technical Document:

AMP Product Specification 108-5390

Packaging — Tube





Recommended PC Board Layout

No. of Positions	Dimensions			Plug Assembly Part Numbers	
	A	B	C	Packaged in Tubes	Packaged on Tape*
40	15.20 .598	21.60 .850	20.20 .795	179029-1	1-177966-1
60	23.20 .913	29.60 1.165	28.20 1.110	179029-2	1-177966-2
80	31.20 1.228	37.60 1.480	36.20 1.425	179029-3	—
100	39.20 1.543	45.60 1.795	44.20 1.740	179029-4	—
120	47.20 1.858	53.60 2.110	52.20 2.055	179029-5	—
140	55.20 2.173	61.60 2.425	60.20 2.370	179029-6	—
160	63.20 2.488	69.60 2.740	68.20 2.685	179029-8	—

*With steel cover for automatic placement.

Vertical Plug Assemblies for 7 [.276], 11 [.433] and 15 [.590] Stacking Heights

7mm Plug

Material and Finish:

Housing — High temperature thermoplastic, natural color, 94V-0 rated

Contacts — Brass; duplex plated 0.00020 [.000008] min. gold on contact area, 0.00100 [.000039] min. tin-lead on solder area, with entire contact underplated 0.00130 [.000051] min. nickel

Related Product Data:

Performance Characteristics — page 1

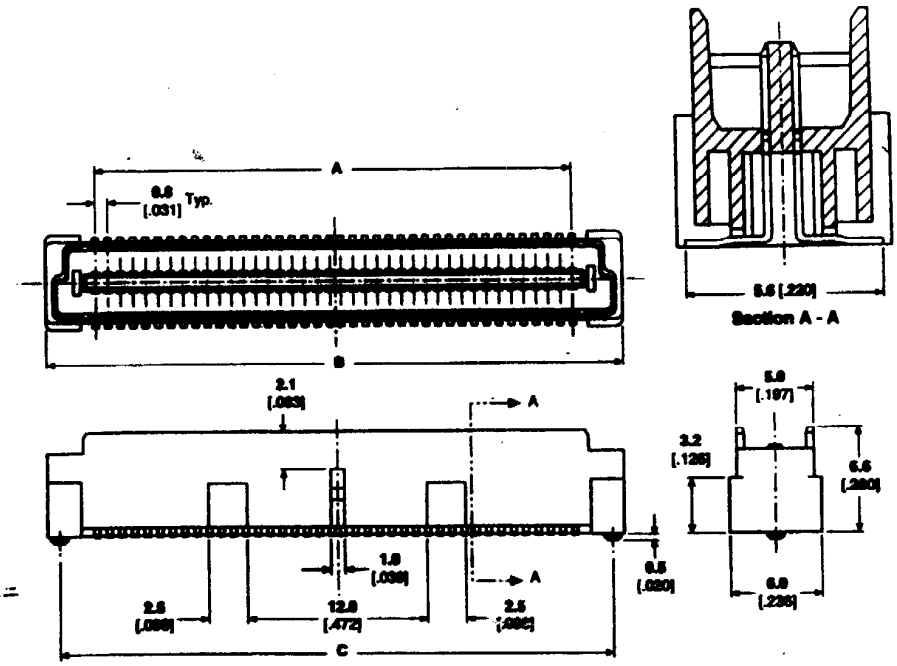
Stacking Height Combinations — page 2

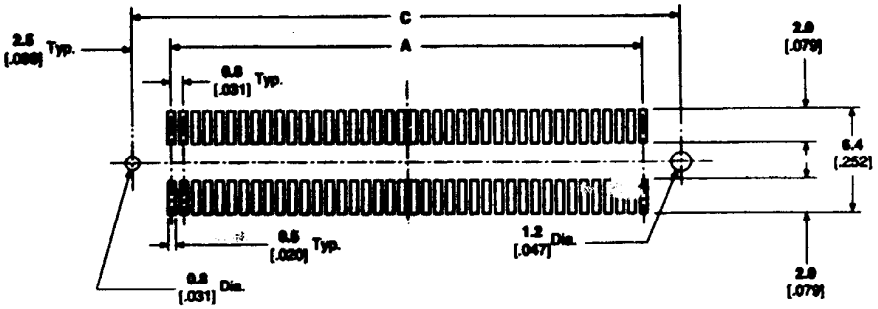
Mating Receptacle Assemblies — pages 7 thru 9

Technical Document:

AMP Product Specification 108-5390

Packaging — Tube





Recommended PC Board Layout

No. of Positions	Dimensions			Plug Assembly Part Numbers	
	A	B	C	Packaged in Tubes	Packaged on Tape*
40	15.20 .598	21.60 .866	20.00 .795	179030-1	2-177986-1
60	23.20 .913	29.60 1.173	28.00 1.110	179030-2	2-177986-2
80	31.20 1.228	37.60 1.488	36.00 1.425	179030-3	—
100	39.20 1.543	45.60 1.803	44.00 1.740	179030-4	—
120	47.20 1.858	53.60 2.118	52.00 2.055	179030-5	—
140	55.20 2.173	61.60 2.433	60.00 2.370	179030-6	—
160	63.20 2.488	69.60 2.748	68.00 2.685	179030-8	—
200	79.20 3.118	85.60 3.378	84.00 3.315	1-179030-0	—

*With steel cover for automatic placement.

Vertical Plug Assemblies for 8 [.315], 12 [.472] and 16 [.630] Stacking Heights

8mm Plug

Material and Finish:

Housing — High temperature thermoplastic, natural color, 94V-0 rated

Contacts — Brass; duplex plated 0.00020 [.000008] min. gold on contact area, 0.00100 [.000039] min. tin-lead on solder area, with entire contact underplated 0.00130 [.000051] min. nickel

Related Product Data:

Performance Characteristics — page 1

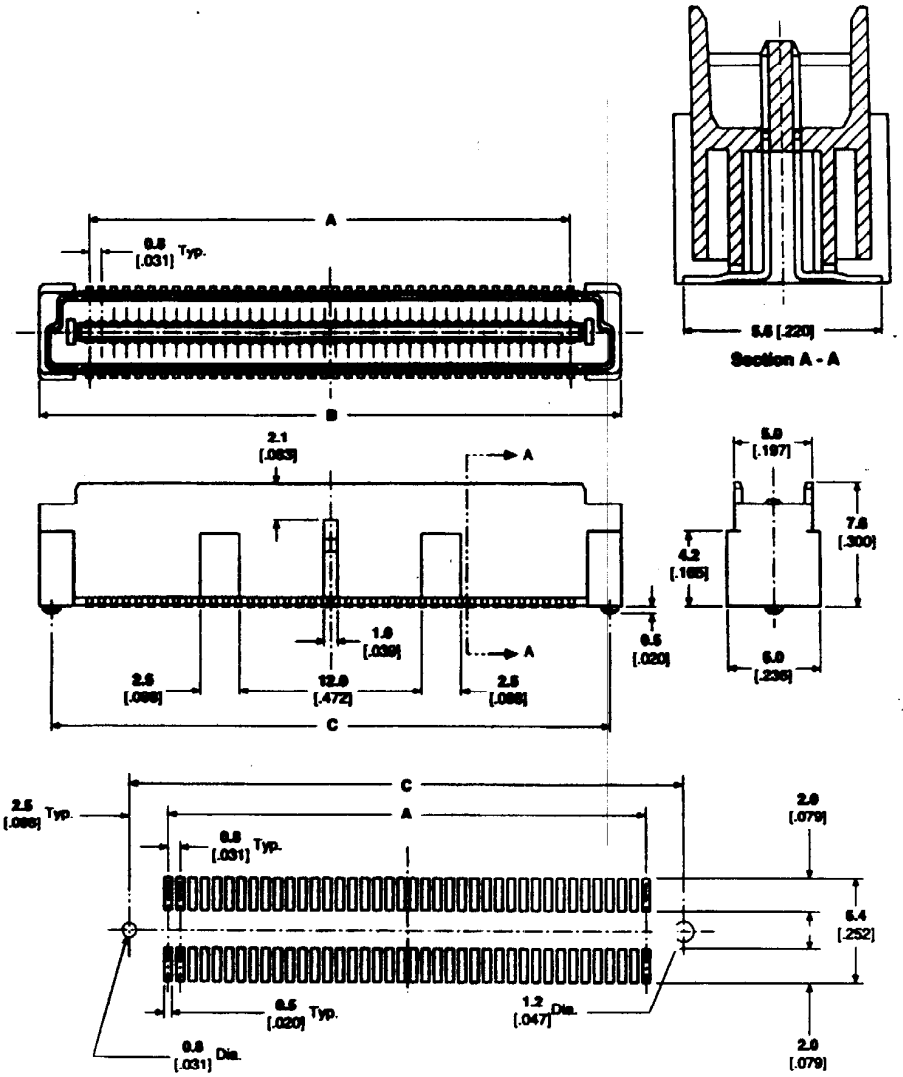
Stacking Height Combinations — page 2

Mating Receptacle Assemblies — pages 7 thru 9

Technical Document:

AMP Product Specification 108-5390

Packaging — Tube



Recommended PC Board Layout

No. of Positions	Dimensions			Plug Assembly Part Numbers	
	A	B	C	Packaged in Tubes	Packaged on Tape*
40	15.20 .598	21.80 .858	20.20 .795	179031-1	3-177986-1
60	23.20 .913	29.80 1.173	28.20 1.110	179031-2	3-177986-2
80	31.20 1.228	37.80 1.488	36.20 1.425	179031-3	3-177986-3
120	47.20 1.858	53.80 2.118	52.20 2.055	179031-5	—
140	55.20 2.173	61.80 2.433	60.20 2.370	179031-6	—
160	71.20 2.803	77.80 3.063	76.20 3.000	179031-9	—

*With steel cover for automatic placement.

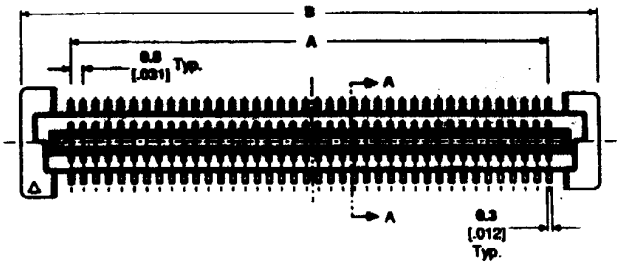
Vertical Receptacle Assemblies for 5 [.197], 6 [.236], 7 [.276] and 8 [.315] Stacking Heights

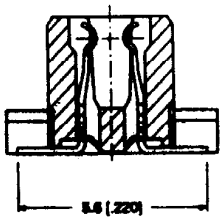
5mm Receptacle

Material and Finish:

Housing — High temperature thermoplastic, natural color, 94V-0 rated

Contacts — Beryllium copper; duplex plated 0.00020 [.000008] min. gold on contact area, 0.00100 [.000039] min. tin-lead on solder area, with entire contact underplated 0.00130 [.000051] min. nickel





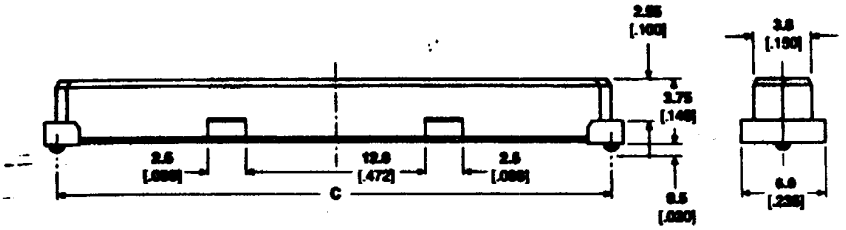
Section A - A

Related Product Data:

Performance Characteristics — page 1

Stacking Height Combinations — page 2

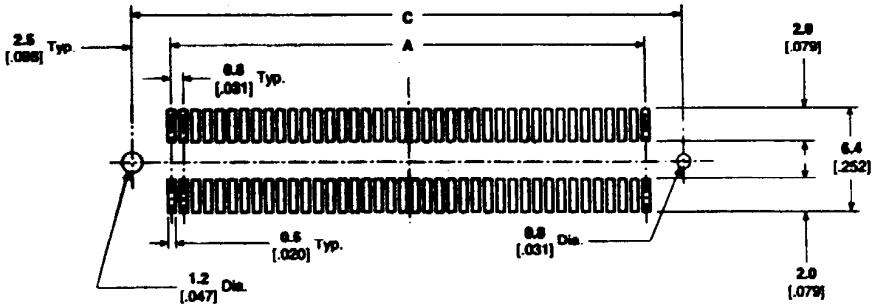
Mating Plug Assemblies — pages 3 thru 6



Technical Document:

AMP Product Specification 108-5390

Packaging — Tube



Recommended PC Board Layout

No. of Positions	Dimensions			Receptacle Assembly Part Numbers	
	A	B	C	Packaged in Tubes	Packaged on Tape*
40	15.20 .598	21.80 .858	20.20 .795	177983-1	177985-1
60	23.20 .913	29.80 1.173	28.20 1.110	177983-2	177985-2
80	31.20 1.228	37.80 1.488	36.20 1.425	177983-3	177985-3
100	39.20 1.543	45.80 1.803	44.20 1.740	177983-4	—
120	47.20 1.858	53.80 2.118	52.20 2.055	177983-5	—
140	55.20 2.173	61.80 2.433	60.20 2.370	177983-6	—
160	63.20 2.488	69.80 2.748	68.20 2.685	177983-8	—
200	79.20 3.118	85.80 3.378	84.20 3.315	1-177983-0	—

*With steel cover for automatic placement.

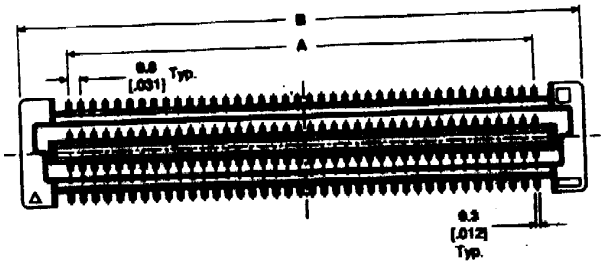
Vertical Receptacle Assemblies for 9 [.354], 10 [.394], 11 [.433] and 12 [.472] Stacking Heights

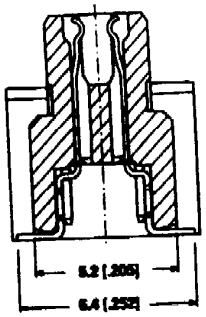
9mm Receptacle

Material and Finish:

Housing — High temperature thermoplastic, natural color, 94V-0 rated

Contacts — Beryllium copper; duplex plated 0.00020 [.000008] min. gold on contact area, 0.00100 [.000039] min. tin-lead on solder area, with entire contact underplated 0.00130 [.000051] min. nickel





Section A - A

Related Product Data:

Performance Characteristics — page 1

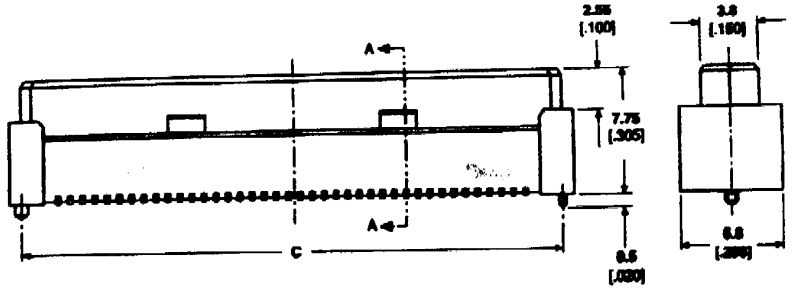
Stacking Height Combinations — page 2

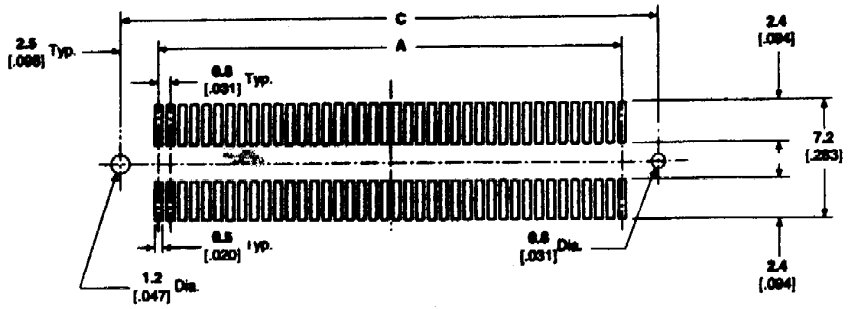
Mating Plug Assemblies — pages 3 thru 6

Technical Document:

AMP Product Specification 108-5390

Packaging — Tube





Recommended PC Board Layout

No. of Positions	Dimensions A	Dimensions B	Dimensions C	Receptacle Assembly Part Numbers Packaged in Tubes	Receptacle Assembly Part Numbers Packaged on Tape*
40	15.20 .598	21.00 .826	20.20 .795	5-179009-1	5-179160-1
60	23.20 .913	29.00 1.173	28.20 1.110	5-179009-2	5-179160-2
80	31.20 1.228	37.00 1.456	36.20 1.425	5-179009-3	5-179160-3
100	39.20 1.543	45.00 1.803	44.20 1.740	5-179009-4	—
120	47.20 1.858	53.00 2.118	52.20 2.055	5-179009-5	—
140	55.20 2.173	61.00 2.453	60.20 2.370	5-179009-6	—
160	63.20 2.488	69.00 2.748	68.20 2.685	5-179009-8	—

*With steel cover for automatic placement.

Vertical Receptacle Assemblies for 13 [.512], 14 [.551], 15 [.590] and 16 [.630] Stacking Heights

13mm Receptacle

Material and Finish:

Housing — High temperature thermoplastic, natural color, 94V-0 rated

Contacts — Beryllium copper; duplex plated 0.00020 [.000008] min. gold on contact area, 0.00100 [.000039] min. tin-lead on solder area, with entire contact underplated 0.00130 [.000051] min. nickel

Related Product Data:

Performance Characteristics — page 1

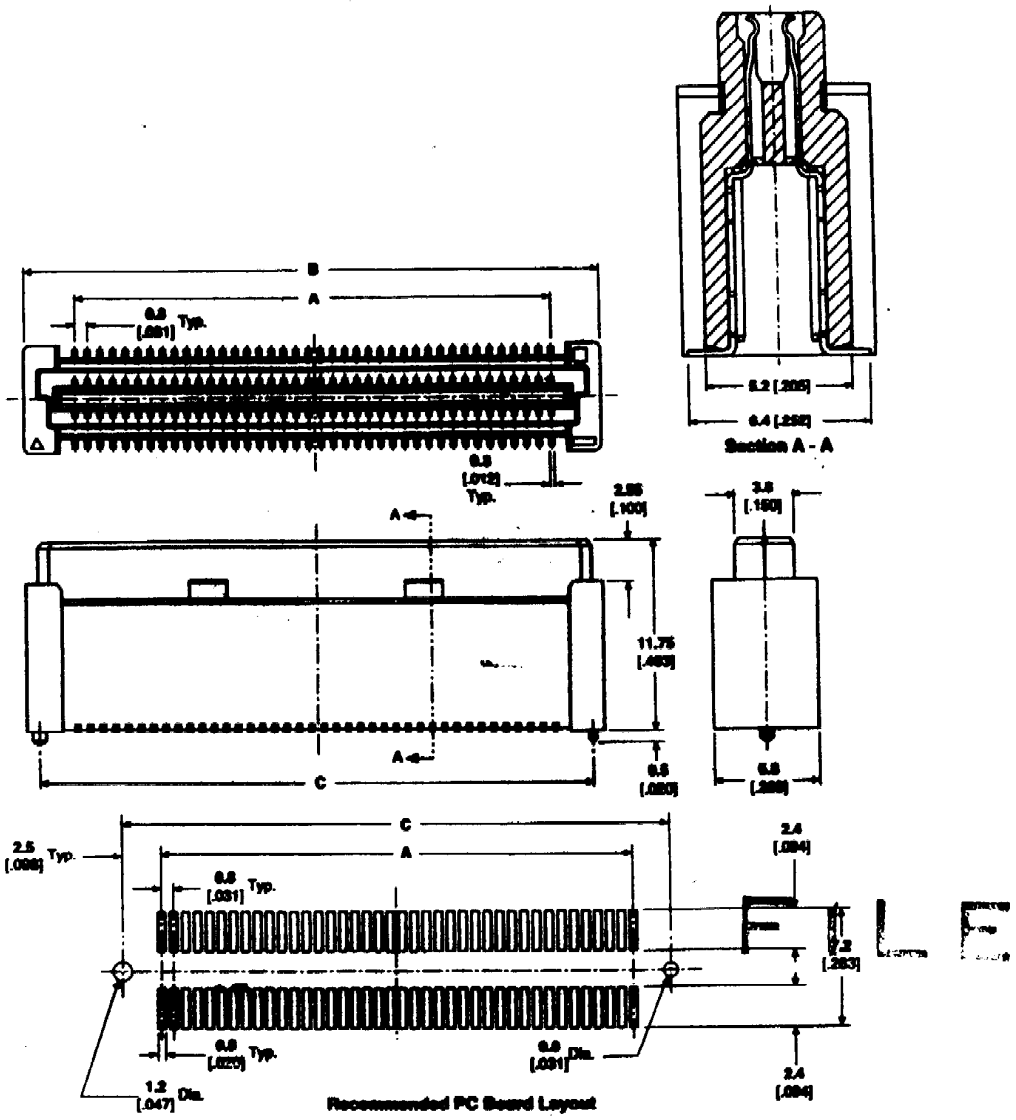
Stacking Height Combinations — page 2

Mating Plug Assemblies — pages 3 thru 6

Technical Document:

AMP Product Specification 108-5380

Packaging — Tube



No. of Positions	Dimensions A	Dimensions B	Dimensions C	Receptacle Assembly Part Numbers
40	18.50 .900	21.80 .858	20.20 .795	5-179010-1
60	28.50 .913	29.80 1.173	28.20 1.110	5-179010-2
80	31.50 1.239	37.80 1.488	36.20 1.425	5-179010-3
100	39.50 1.543	45.80 1.803	44.20 1.740	5-179010-4
120	47.20 1.858	53.80 2.118	52.20 2.055	5-179010-5
140	55.20 2.173	61.80 2.433	60.20 2.370	5-179010-6
160	63.20 2.488	69.80 2.748	68.20 2.685	5-179010-8
180	71.20 2.803	77.80 3.063	76.20 3.000	5-179010-9
200	79.20 3.118	85.80 3.378	84.20 3.315	6-179010-0

The Americas

Regional Center
AMP
Harrisburg, PA, U.S.A.
Phone: 717-564-0100
FAX: 717-986-7813

AMP S.A. Argentina
Buenos Aires, Argentina
Phone: 54-1-793-7311
FAX: 54-1-793-9331

AMP de Brasil, Ltda.
São Paulo, Brazil
Phone: 55-11-861-1311
FAX: 55-11-861-0397

AMP of Canada, Ltd.
Markham (Toronto)
Ontario, Canada
Phone: 905-475-6222
FAX: 905-474-5520

AMP Incorporated
Harrisburg, PA, U.S.A.
Phone: 717-564-0100
FAX: 717-986-7813

AMP de Mexico, S.A.
Mexico City, Mexico
Phone: 525-729-0400
FAX: 525-398-7964

Europe

Regional Center
AMP
Stoke Poges, SL2 4JL England
Phone: 44-753-676-800
FAX: 44-753-676-801

AMP Belgium
Zaventem (Brussels), Belgium
Phone: 32-2-719-2511
FAX: 32-2-721-3283

AMP Czech SRO
Brno, Czech Republic
Phone: 42-5-4321-5053
FAX: 42-5-4321-5070

AMP Denmark
Viby, Denmark
Phone: 45-86-295-055
FAX: 45-86-295-133

AMP Deutschland G.m.b.H.
Langen, Germany
Phone: 49-6103-7090
FAX: 49-6103-709223

AMP Elektrik-Elektronik
Baglanti Sistemleri ticaret Ltd. Sti
Istanbul Turkey
Phone: 90-212-281-8181
FAX: 90-212-281-8184

AMP Española, S.A.
Barcelona, Spain
Phone: 34-3-200-8466
FAX: 34-3-201-7879

AMP Finland Oy
Helsinki, Finland
Phone: 358-0-547-2255
FAX: 358-0-547-2250

AMP de France S.A.
Pontoise, France
Phone: 33-1-3420-8888
FAX: 33-1-3420-8800

AMP of Great Britain, Ltd.
Stanmore
Middlesex, England
Phone: 44-81-954-2366
FAX: 44-81-954-6234

AMP-Holland B.V.
's-Hertogenbosch
The Netherlands
Phone: 31-73-20-0911
FAX: 31-73-21-2365

AMP-Hungary Mfg. Co. Ltd.
Esztergom, Hungary
Phone: 36-333-15311
FAX: 36-333-15387

AMP Ireland, Ltd.
Dublin, Ireland
Phone: 353-1-51-7333
FAX: 353-1-52-7685

AMP Italia S.p.A.
Collegno, (Turin), Italy
Phone: 39-11-401-2111
FAX: 39-11-403-1116

AMP Norge A/S
Rud (Oslo), Norway
Phone: 47-67-135-060
FAX: 47-67-136-998

AMP Österreich m.b.h.
Wien (Vienna), Austria
Phone: 43-1-277-97-0
FAX: 43-1-270-2661

AMP Portugal, Lda.
Lisbon, Portugal
Phone: 351-1-387-7016
FAX: 351-1-387-7172

AMP Svenska AB
Stockholm Jakobsberg
Sweden
Phone: 46-8-580-533-00
FAX: 46-8-580-194-70

AMP (Schweiz) A.G.
Steinach, Switzerland
Phone: 41-7-147-0707
FAX: 41-7-147-0347

Asia/Pacific

Regional Center
AMP
Kawasaki, Kanagawa 213, Japan
Phone: 81-44-813-8502
FAX: 81-44-813-8500

Australian AMP Pty., Ltd.
Castle Hill, NSW 2154
Phone: 61-2-680-3377
FAX: 61-2-899-8649

AMP India, Pvt., Ltd.
Bangalor, India
Phone: 91-80-226-7272
FAX: 91-80-226-1133

AMP (Japan), Ltd.
Kawasaki-shi, Japan
Phone: 81-044-844-8111
FAX: 81-44-812-3207

AMP Korea, Ltd.
Seoul, South Korea
Phone: 82-2-569-0535
FAX: 82-2-569-0524

New Zealand AMP, Ltd.
Auckland, New Zealand
Phone: 64-9-634-4580
FAX: 64-9-634-4586

AMP Products (Malaysia) Sdn. Bhd.
Kuala Lumpur, Malaysia
Phone: 603-282-8128
FAX: 603-282-8951

AMP Products Pacific, Ltd.
Kowloon, Hong Kong
Phone: 852-735-1628
FAX: 852-735-0243

AMP Shanghai Connector, Ltd.
Shanghai, People's Republic
of China
Phone: 86-21-470-0802
FAX: 86-21-470-0728

AMP Singapore, Pte., Ltd.
Singapore
Phone: 65-482-0311
FAX: 65-482-1012

AMP Taiwan B.V.
Taipei, Taiwan
Republic of China
Phone: 886-2-325-0391
FAX: 886-2-325-0398

AMP (Thailand), Ltd.
Bangkok, Thailand
Phone: 662-513-9888
FAX: 662-513-9899

Wholly Owned Companies

ACSYS Incorporated
Burlington, MA, U.S.A.
Phone: 617-270-5566
FAX: 617-270-5575

AMP Packaging Systems
Austin, TX, U.S.A.
Phone: 512-244-5100
FAX: 512-244-5109

Carroll Touch Inc.
Round Rock, TX, U.S.A.
Phone: 512-244-3500
FAX: 512-244-7040

Carroll Touch International
Japan Branch
Tokyo 160, Japan
Phone: 81-3-345-8231

Connectware, Inc.
Richardson, TX U.S.A.
Phone: 214-907-1093
FAX: 214-907-1594

Kaptron, Inc.
Palo Alto, CA, U.S.A.
Phone: 415-493-8006
FAX: 415-493-8924

Matrix Science Corp.
Torrance, CA, U.S.A.
Phone: 310-328-0271
FAX: 310-328-6606

Microwave Signal, Inc.
Clarksburg, MD U.S.A.
Phone: 301-428-5197
FAX: 301-540-8512

Precision Interconnect Corporation
Portland, OR, U.S.A.
Phone: 503-620-9400
FAX: 503-620-7131

Raylan Corporation
Palo Alto, CA, U.S.A.
Phone: 415-813-0400
FAX: 415-494-7844

Joint Ventures

AMP-AKZO Corporation
Greenville, SC, U.S.A.

65981—5M—5K/FP—9-95—16226-001
Printed in U.S.A.

AMP Incorporated, Harrisburg, PA 17105; Phone: 717-564-0100; FAX: 717-986-7813
Product Information Center; Phone: 1-800-522-6752

Insert 5-2: Product Specification for 6330 Micro Design-in Module

Insert 5-3: Drawing, 6330 Micro Design-in Module

Product Specification and Drawing of 6330 Micro Design-in Module are included in the following pages.