

# 8564-4500PL Datasheet

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DiGi Electronics Part Number	8564-4500PL-DG
Manufacturer	3M
Manufacturer Product Number	8564-4500PL
Description	CONN RCPT 64POS 0.1 GOLD PCB
Detailed Description	64 Position Receptacle Connector 0.100" (2.54mm) Through Hole Gold

This model 8564-4500PL is available at DiGi Electronics.

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## Purchase and inquiry

Manufacturer Product Number:

8564-4500PL

Series:

8500

Connector Type:

Receptacle

Style:

Board to Board or Cable

Number of Positions Loaded:

All

Number of Rows:

2

Mounting Type:

Through Hole

Fastening Type:

Push-Pull

Contact Finish Thickness - Mating:

12.0µin (0.30µm)

Insulation Height:

0.425" (10.80mm)

Operating Temperature:

-55°C ~ 105°C

Contact Finish - Post:

Gold

Ingress Protection:

-

Current Rating (Amps):

1A

Applications:

-

Contact Shape:

Square

Contact Finish Thickness - Post:

Flash

Manufacturer:

3M

Product Status:

Obsolete

Contact Type:

Female Socket

Number of Positions:

64

Pitch - Mating:

0.100" (2.54mm)

Row Spacing - Mating:

0.100" (2.54mm)

Termination:

Kinked Pin, Solder

Contact Finish - Mating:

Gold

Insulation Color:

Gray

Contact Length - Post:

0.110" (2.79mm)

Material Flammability Rating:

UL94 V-0

Mated Stacking Heights:

-

Features:

Polarizing Key

Voltage Rating:

1000V

Insulation Material:

Polybutylene Terephthalate (PBT), Glass Filled

Contact Material:

Copper Alloy

Base Product Number:

8564

## Environmental & Export classification

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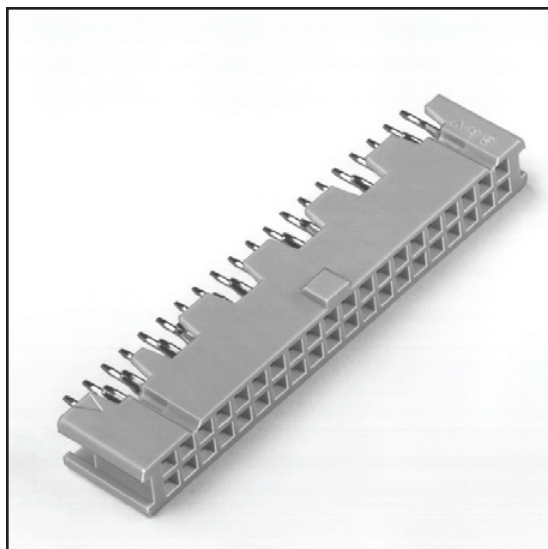
Moisture Sensitivity Level (MSL):

REACH Status:

# 3M™ Polarized Boardmount Socket

.100" × .100" Centerbump Polarization with Straight Solder Tails

8500 Series



- Centerbump polarization
- Mates with low profile shrouded headers
- Part number on each piece
- Optional keying plug
- UL 94V-0 rated polyester body
- Board retention feature
- See regulatory information appendix (RIA) for chemical compliance information

Date Modified: April 11, 2008

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## Physical

**Insulation:**

Material: Glass Filled Polyester (PBT)

Flammability: UL 94V-0

Color: Gray

**Contact:**

Material: Copper Alloy

Underplating: 2  $\mu\text{m}$  [ 79  $\mu\text{in}$  ] Nickel

Wiping Area: 0.3  $\mu\text{m}$  [ 12  $\mu\text{in}$  ] Gold

Solder Tails: Gold flash

**Marking:** 3M Logo, Part Identification Number and Orientation Triangle

## Electrical

**Current Rating:** 1 A

**Insulation Resistance:**  $> 1 \times 10^9 \Omega$  at 500 V<sub>DC</sub>

**Withstanding Voltage:** 1,000 V<sub>RMS</sub> at Sea Level

## Environmental

**Temperature Rating:** -55°C to 105°C

**Process Rating:** 260°C 10 seconds (Wave Solder)  
390°C 3 seconds (Soldering Iron)

UL File No.: E68080



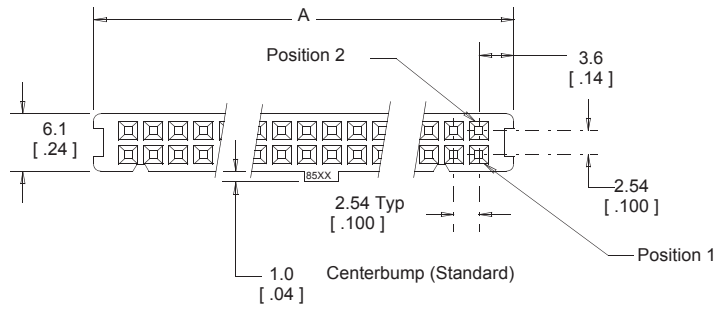
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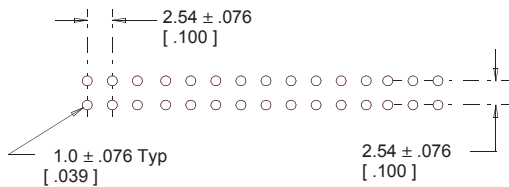
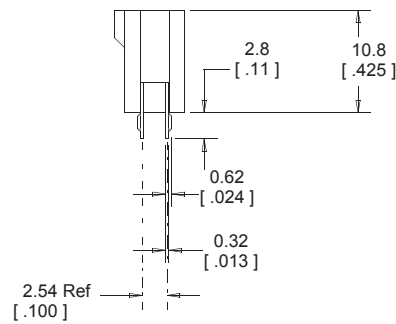
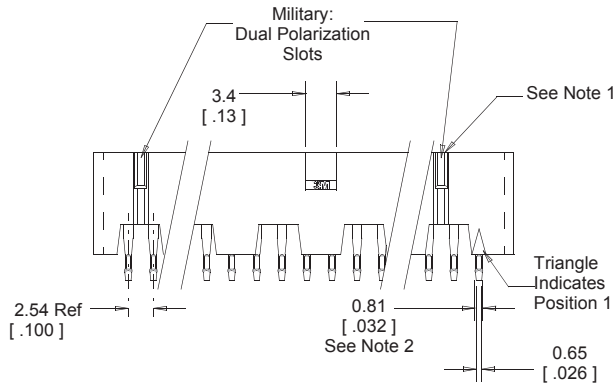
# 3M™ Polarized Boardmount Socket

.100" × .100" Centerbump Polarization with Straight Solder Tails

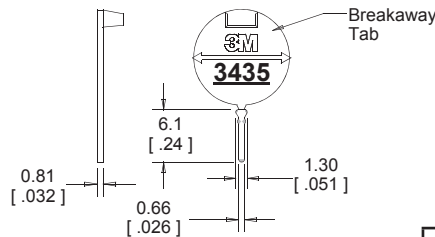
8500 Series



Pin Qty	Dimensions A
10	17.2 [0.68]
16	24.8 [0.98]
20	29.9 [1.18]
26	37.5 [1.48]
30	42.6 [1.68]
34	47.7 [1.88]
40	55.3 [2.18]
50	68.0 [2.68]
60	80.7 [3.18]
64	85.8 [3.38]



**Recommended Mounting Hole Pattern**  
(Shown for Top Side of PC Board)



**3435-0**  
**Keying Plug**  
(Optional: Order Separately)

Tolerance Unless Noted		
	mm	Inch
	0.0	0.00
mm	±.3	±.13

[ ] Dimensions for Reference Only

**Notes:**

1. This polarizing groove is non-existent on the 10 position version.
2. The contact soldertail is designed to retain the connector on the PC board during flow soldering operations.
3. Recommended to be mated to the 2.54 [.100] × 2.54 [.100] low profile header and the Plug Connector 4600 Series without ejector latches.



## Ordering Information

**Sockets**  
**85XX - 4500PL** (RIA E1 & C1 apply)

Contact Quantity  
See Table

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Sheet 2 of 2

# Regulatory Information Appendix

## 3M Electronic Solutions Division/Interconnect

### EUROPE

#### Appendix E1: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

**This product is RoHS Compliant 2005/95/EC.**

“RoHS Compliant 2005/95/EC” means that the product or part (“Product”) does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M’s best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M’s Regulatory Information Appendix, then 3M’s entire liability and Buyer’s exclusive remedy will be in accordance with the Warranty stated below.

#### Appendix E2: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

**This product contains lead in the compliant pin area in excess of the maximum concentration value allowed but is compliant by exemption under EU Commission Decision 2005/747/EC.**

“RoHS Compliant 2005/95/EC” means that the product or part (“Product”) does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M’s best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M’s Regulatory Information Appendix, then 3M’s entire liability and Buyer’s exclusive remedy will be in accordance with the Warranty stated below.

#### Appendix E3: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment as amended by Commission Decision 2005/618/EC.

**This product contains lead in the solder tail area in excess of the maximum concentration value allowed.**

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#### Appendix E4: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

**This product contains decaBDE in the insulating material in excess of the maximum concentration value allowed but is compliant by exemption under EU Commission Decision 2005/717/EC.**

“RoHS Compliant 2005/95/EC” means that the product or part (“Product”) does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M’s best knowledge and belief based upon information provided by third party suppliers to 3M.

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## Appendix E5: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

**This product contains lead in excess of the maximum concentration value allowed but is compliant by exemption under Item 6 of the Annex to the Directive.**

“RoHS Compliant 2005/95/EC” means that the product or part (“Product”) does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M’s best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M’s Regulatory Information Appendix, then 3M’s entire liability and Buyer’s exclusive remedy will be in accordance with the Warranty stated below.

## CHINA

### Appendix C1: China RoHS



Electronic Industry Standard of the People’s Republic of China, SJ/T11363-2006, Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products.

This symbol, per Marking for the Control of Pollution Caused by Electronic Information Products, SJ/T11364-2006, means that the product or part **does not** contain any of the following substances in excess of the following maximum concentration values in any homogeneous material: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M’s best knowledge and belief based upon information provided by third party suppliers to 3M.

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### Appendix C2: China RoHS



Electronic Industry Standard of the People’s Republic of China, SJ/T11363-2006, Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products.

This symbol, per Marking for the Control of Pollution Caused by Electronic Information Products, SJ/T11364-2006, means that the product or part **does** contain a substance, as detailed in the chart below, in excess of the following maximum concentration values in any homogeneous material: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M’s best knowledge and belief based upon information provided by third party suppliers to 3M.

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产品中有毒有害物质或元素的名称及含量 Name and Content of Hazardous Substances or Elements

部件名称 (Part or Component Name)	有毒有害物质或元素 (Hazardous Substances or Elements)					
	铅(Pb)	汞(Hg)	镉(Cd)	六价铬(Cr(VI))	多溴联苯(PBB)	多溴二苯醚(PBDE)
端子镀层(contact plating)	×	○	○	○	○	○
○: 表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006 标准规定的限量要求以下。(Indicates that this hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.)						
×: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006 标准规定的限量要求。(Indicates that this hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363-2006.)						

## Appendix C3: China RoHS

Electronic Industry Standard of the People's Republic of China, SJ/T11363-2006, Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products.

This symbol, per Marking for the Control of Pollution Caused by Electronic Information Products, SJ/T11364-2006, means that the product or part **does** contain a substance, as detailed in the chart below, in excess of the following maximum concentration values in any homogeneous material: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

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产品中有毒有害物质或元素的名称及含量 Name and Content of Hazardous Substances or Elements

部件名称 (Part or Component Name)	有毒有害物质或元素 (Hazardous Substances or Elements)					
	铅(Pb)	汞(Hg)	镉(Cd)	六价铬(Cr(VI))	多溴联苯(PBB)	多溴二苯醚(PBDE)
合金(Metal alloy)	×	○	○	○	○	○
<p>○：表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006 标准规定的限量要求以下。(Indicates that this hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.)</p> <p>×：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006 标准规定的限量要求。(Indicates that this hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363-2006.)</p>						

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