3M™ Inverse DIN 41612 Boardmount Socket
2 Row Type Q (Rows A & B Filled)  7164 Series

- High density (64 position)
- Low mating force minimizes plating wear on contact surfaces
- High reliability contact design
- Individual connector coding with the 3435-1 keying plug
- See Regulatory Information Appendix (RIA) for chemical compliance information

Physical

**Insulation**
- Material: Glass Filled Polyester (PBT)
- Flammability: UL 94V-0
- Color: Gray

**Contact**
- Material: Copper Alloy

**Plating**
- Underplating: 60 µ" to 110 µ" [1.50 µm to 2.75 µm] Nickel
- Wiping Area: 15 µ" [0.38 µm] Gold
- Solder Tails: 200 µ" to 300 µ" [5.08 µm to 7.62 µm] Whisker Mitigating Matte Tin
- Marking: Pin position numbers

Electrical

- **Current Rating:** 3 A
- **Insulation Resistance:** > 1 × 10\(^{12}\) Ω at 1000 V\(_{DC}\)
- **Withstanding Voltage:** 1000 V\(_{RMS}\) at Sea Level
- **Contact Resistance:** < 15 Milliohms

Environmental

- **Temperature Rating:** -55°C to +125°C
- **Process Rating:** Maximum insulator temperature 191°C (Solder Wave Process Only)

UL File No.: E68080

Date Modified: March 28, 2007

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Sheet 1 of 2
3M™ Inverse DIN 41612 Boardmount Socket
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Ordering Information

Inverse Din 41612
Right Angle Boardmount Socket
7164-50B2TH
(RIA E1 & C1 apply)

Keying Plug
(Order Separately)
3435-1000

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Sheet 2 of 2
Appendix E1: European Union RoHS

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

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

This product contains lead in the solder tail area in excess of the maximum concentration value allowed.
 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 E4: European Union RoHS

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 2005/17/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 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.

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 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.

The numerical reference in the symbol above should not be construed as a representation regarding the product’s life or an extension of a product warranty. The product warranty is stated below. 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 product Warranty stated below.

<table>
<thead>
<tr>
<th>部件名称 (Part or Component Name)</th>
<th>有毒有害物质或元素 (Hazardous Substances or Elements)</th>
</tr>
</thead>
<tbody>
<tr>
<td>钴子镀层 (contact plating)</td>
<td>铅 (Pb)</td>
</tr>
<tr>
<td></td>
<td>×</td>
</tr>
</tbody>
</table>

○：表示该有毒有害物质在该部件所有均质材料中的含量在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.)

Important Notice
All statements, technical information, and recommendations related to 3M’s products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M’s current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

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