



## 2.54mm (.100") Pitch KK® Low Profile PC Board Receptacle

**44812**

### Top and Bottom Entry



查询"44812-0051"供应商

#### Low Profile KK® Receptacle Combines Top and Bottom Header Entry in One Connector

The new 44812 series Low Profile PC Board Connector is a significant step forward in updating the KK product line to reflect customer's needs in the 21st century. Utilizing terminal design features from the SPOX™ family, Molex has been able to improve performance while shrinking the overall package. The new design functions as both a top and bottom entry version, and retrofits into existing KK .100" Pitch bottom entry PCB layouts. Overall connector height has been reduced by almost 50%! The housing is made out of high temperature nylon for surface mount compatibility. The new design also permits higher current ratings and a higher operating temperature.

#### Features and Benefits

- 5.0A per line increases current carrying capacity
- Compact 4.5mm height above PC board allows closer board stacking and is nearly half the height of existing receptacles
- Improved terminal design permits higher operating temperatures, up to +105°C
- Top and bottom entry mating provides versatile design feature in one cost-conscious style
- Connector can be retrofitted into existing PC board layouts which ensures convenient transition with various mating headers
- Surface-mount compatible housing eliminates potential processing issues

#### SPECIFICATIONS

##### Reference Information

Packaging: Tray  
UL File No.: E29179  
CSA File No.: LR 19980  
Mates With: 4030, 4094, 42225, 42226, 42227,  
42228, 42152, 42153, 42375, 42376, 42377,  
42624  
Designed In: Inches

##### Mechanical

Contact Insertion Force: N/A  
Contact Retention to Housing: 15.6N min.  
Insertion Force to PCB: Varies  
Mating Force: 7.6N per contact max.  
Unmating Force: 2.7N per contact min.  
Durability: 25 cycles

##### Physical

Housing: Glass Filled 4/6 nylon  
Contact: Copper Alloy  
Plating: Contact Area -- Tin or Gold  
Solder Tail Area -- Tin  
Underplating -- Nickel  
PCB Thickness: 0.062"  
Operating Temperature: +105°C

##### Electrical

Voltage: 250 Volts AC (RMS)  
176 Volts DC  
Current: 5 Amperes  
Contact Resistance: 30mΩ max. initial  
10mΩ max. increase over initial  
Dielectric Withstanding Voltage: 1,000V  
Insulation Resistance: 1,000MΩ



## APPLICATIONS

- HVAC [查询"44812-0051"供应商](#)
- Automotive components
  - Radios
  - HVAC
  - Controls
- Medical equipment
- Home entertainment

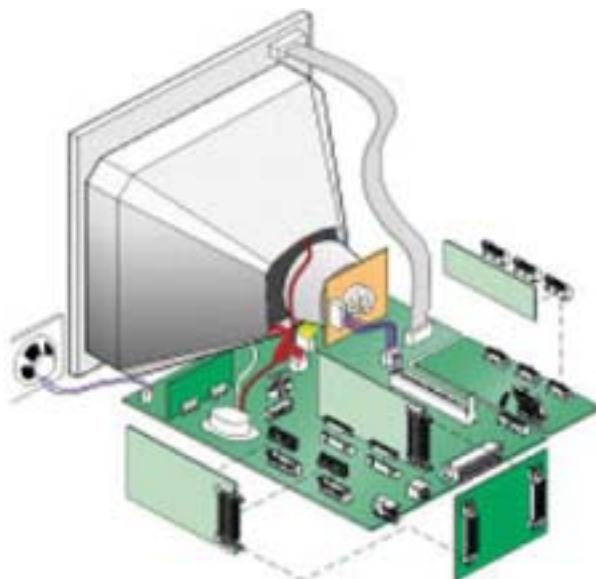
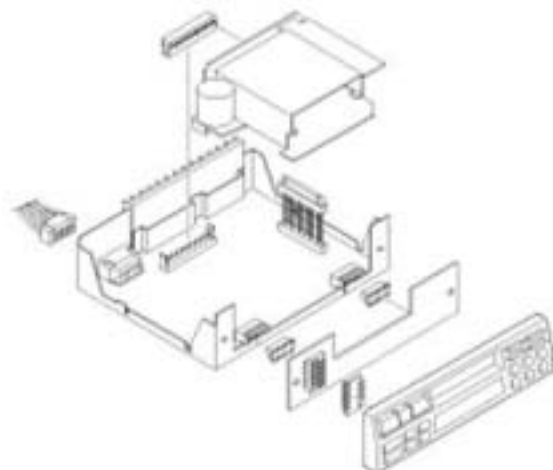
- Home security
- Servers, PCs, routers, hubs
- Distribution — only one part to stock for two functions, providing reduced carrying costs
- Can be used virtually anywhere two boards need to be connected together



## 2.54mm (.100") Pitch KK® Low Profile PC Board Receptacle

**44812**

**Top and Bottom Entry**



| Tin Order No. | 15µ" Gold Order No. | 30µ" Gold Order No. | Circuit |
|---------------|---------------------|---------------------|---------|
| 44812-0002    | 44812-0020          | 44812-0040          | 2       |
| 44812-0003    | 44812-0021          | 44812-0041          | 3       |
| 44812-0004    | 44812-0022          | 44812-0042          | 4       |
| 44812-0005    | 44812-0023          | 44812-0043          | 5       |
| 44812-0006    | 44812-0024          | 44812-0044          | 6       |
| 44812-0007    | 44812-0025          | 44812-0045          | 7       |
| 44812-0008    | 44812-0026          | 44812-0046          | 8       |
| 44812-0009    | 44812-0027          | 44812-0047          | 9       |
| 44812-0010    | 44812-0028          | 44812-0048          | 10      |
| 44812-0011    | 44812-0029          | 44812-0049          | 11      |
| 44812-0012    | 44812-0030          | 44812-0050          | 12      |
| 44812-0013    | 44812-0031          | 44812-0051          | 13      |
| 44812-0014    | 44812-0032          | 44812-0052          | 14      |
| 44812-0015    | 44812-0033          | 44812-0053          | 15      |
| 44812-0016    | 44812-0034          | 44812-0054          | 16      |

### Americas Headquarters

Lisle, Illinois 60532 U.S.A.  
1-800-78MOLEX  
amerinfo@molex.com

### Far East North Headquarters

Yamato, Kanagawa, Japan  
81-462-65-2324  
feninfo@molex.com

### Far East South Headquarters

Jurong, Singapore  
65-6-268-6868  
fesinfo@molex.com

### European Headquarters

Munich, Germany  
49-89-413092-0  
eurinfo@molex.com

### Corporate Headquarters

2222 Wellington Ct.  
Lisle, IL 60532 U.S.A.  
630-969-4550  
Fax: 630-969-1352

Visit our Web site at [www.molex.com](http://www.molex.com)