

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 recptacles
- 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

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

# 44812

# **Top and Bottom Entry**



#### **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

#### **Electrical**

Voltage: 250 Volts AC (RMS) 176 Volts DC

Current: 5 Amperes

Contact Resistance:  $30m\Omega$  max. initial  $10m\Omega$  max. increase over initial Dielectric Withstanding Voltage: 1,000V Insulation Resistance: 1,000M $\Omega$ 

#### 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



## **APPLICATIONS**

- HV 查询"44812"供应商
- Automotive components
  - Radios
  - HVAC
  - Controls
- Medical equipment
- Home entertainment

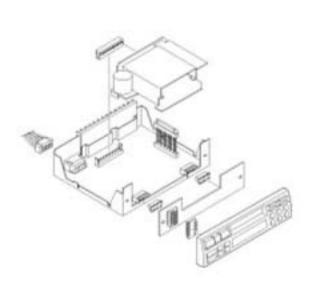


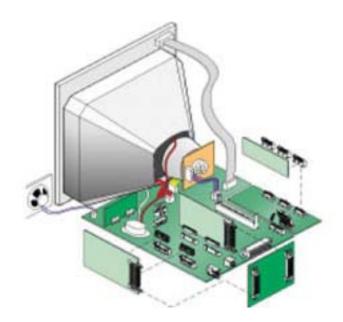
- Servers, PCs, routers, hubs
- Distribution only one part to stock for two functions, providing reduced carrying costs
- Can be used virtually anywhere two boards need to be connected together

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

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