

# Minitek™ VERTICAL RECEPTACLES

## 2.00 mm (.079")



- Two housing heights: 2.30 mm, 4.50 mm
- Dual-beam contact design for highly reliable electrical performance

### TECHNICAL DATA

#### Physical

- Housing: High-temperature, black thermoplastic
- Flammability rating: UL 94 V-0
- Contact: Phosphor-bronze Beryllium-copper – 63453
- Plating: Gold over 1.27 μm (50 μ") nickel



#### Electrical Performance

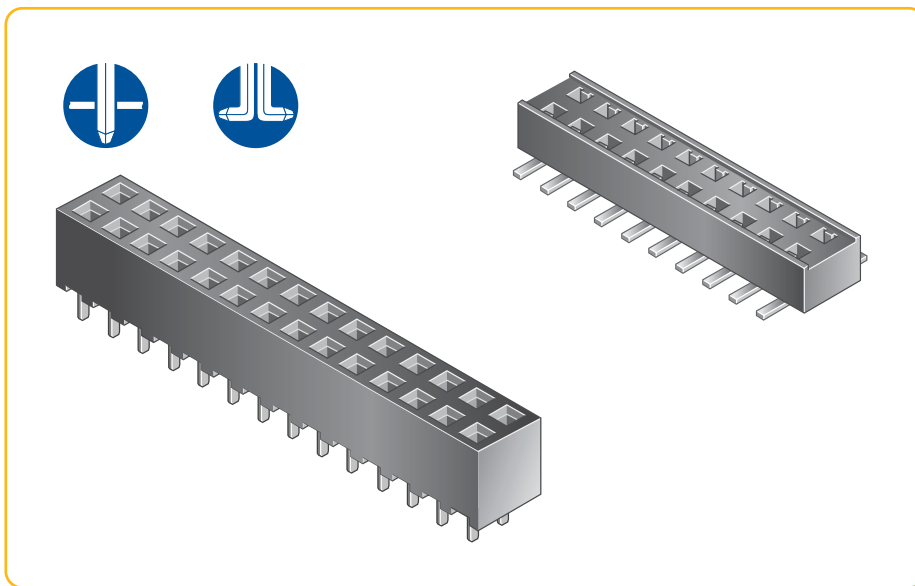
- Current rating: 2 A  
2 A – 63453
- Insulation resistance: 1000 MΩ min.
- Contact resistance: 20 mΩ  
25 mΩ - 63453
- Dielectric withstanding voltage: 500 V
- Voltage rating: 200 V

#### Mechanical Performance

- Mating cycles (durability): 25  
100 - 63453
- Contact retention to housing:  
2.20 N (227 gf) min.  
4.90 N (500 gf) min. – 63453
- Insertion force per contact:  
1.80 N (184 gf) max.  
1.95 N (200 gf) – 63453
- Withdrawal force per contact:  
0.20 N (20 gf) min.

#### Operating Temperature Range

- 55°C to +125°C



#### Packaging

- Standard: TMT in Tubes  
SMT in Tape-and-reel
- Optional: Tubes (SMT)

#### Reference Information

- File no. E66906
- File no. LR46923
- Product drawing:  
by 5-digit base part number
- Product specification:  
GS-12-008  
DPS-12-011 - for 63453

Specifications subject to change without notice.

#### MATING DATA

- Minitek™  
Unshrouded headers 54, 56, 58
- Minitek™ Shrouded headers 64, 66

#### INSERTION DEPTH

- 4.50 mm height:  
3.00 mm min. to 4.30 mm max.  
[provides .381 mm wipe]
- 2.30 mm height – Top Entry:  
1.30 mm min. to 2.20 mm max.  
[provides .381 mm wipe]
- 2.30 mm height – Bottom Entry:  
1.40 mm min. to 2.20 mm max.  
[provides .381 mm wipe]  
plus board thickness

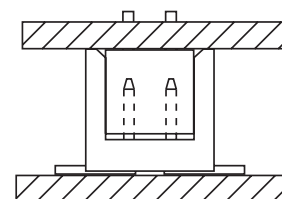
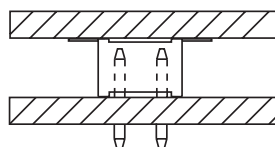
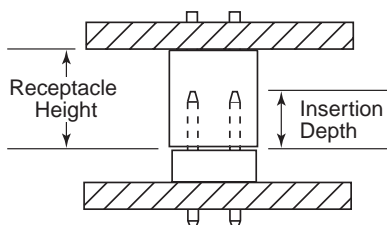
#### PROCESSING INFORMATION

Compatible with wave, vapor-phase, and IR reflow soldering processes

#### RoHs INFORMATION

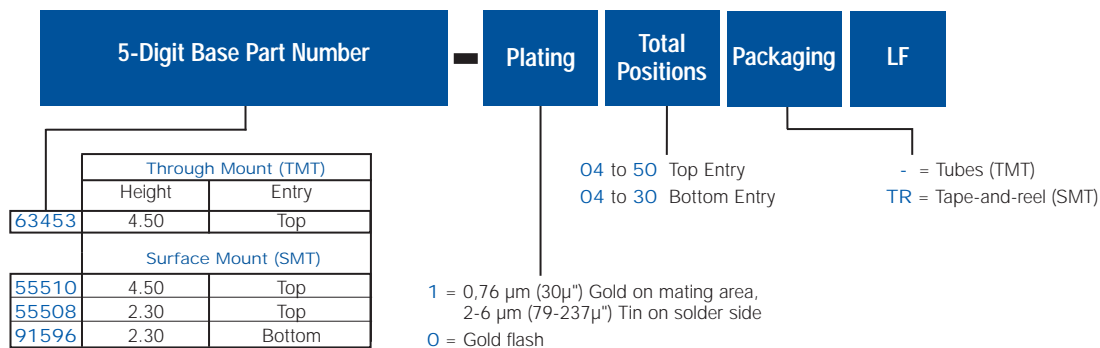
This product is RoHs compatible according to the European Union Directive 2002/95/IEC

### TYPICAL APPLICATIONS



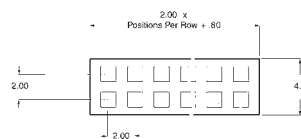
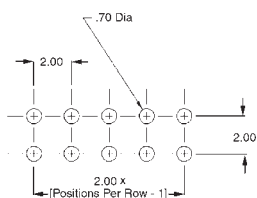
2.00 mm (.079")

## PART NUMBER

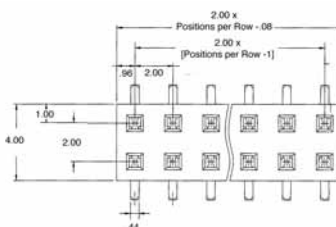
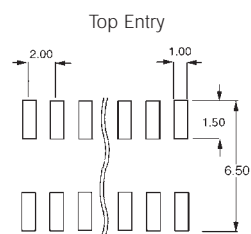
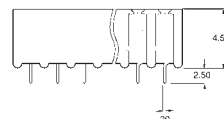


**55510 - 1XXTRLF** **CORE RANGE**  
XX = 04, 06, 08, 10, 12, 16, 20

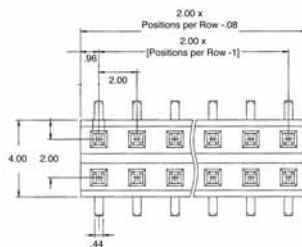
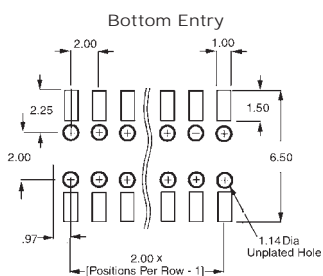
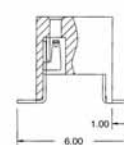
**55510 - 1 Total Positions TRLF** **PRIORITY PART**



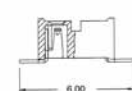
P/N 63453



P/N 55510



P/N 55508



Recommended PCB Layout

Dimensions in mm

2.00 mm (.079")