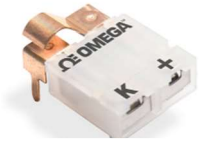
## Circuit Board Mountable Thermocouple Connectors

For OEM use, Omega's solderable PCC connector provides a means to attach thermocouple probes to printed circuit boards. For our uncompensated "U" version, Omega now incorporates beryllium copper alloy, which is stronger than copper, and increases the connector's durability and reliability in connecting time after time. Omega offers a "vertical" version of this connector for special applications. The PCC connector series is also available with an optional transistor retainer clip, which accepts TO-92 style transistors for cold junction temperature measurements at connector entrance. For CE applications, Omega offers a "closed-end" version of this connector. The suffix "-CE" should be added to the model number.

PCC-SMP-K-(*)



PCC-SMP-K-(*)-R

PCC-SMP-K-(*)-V

PCC-SMP-K-(*)-CE

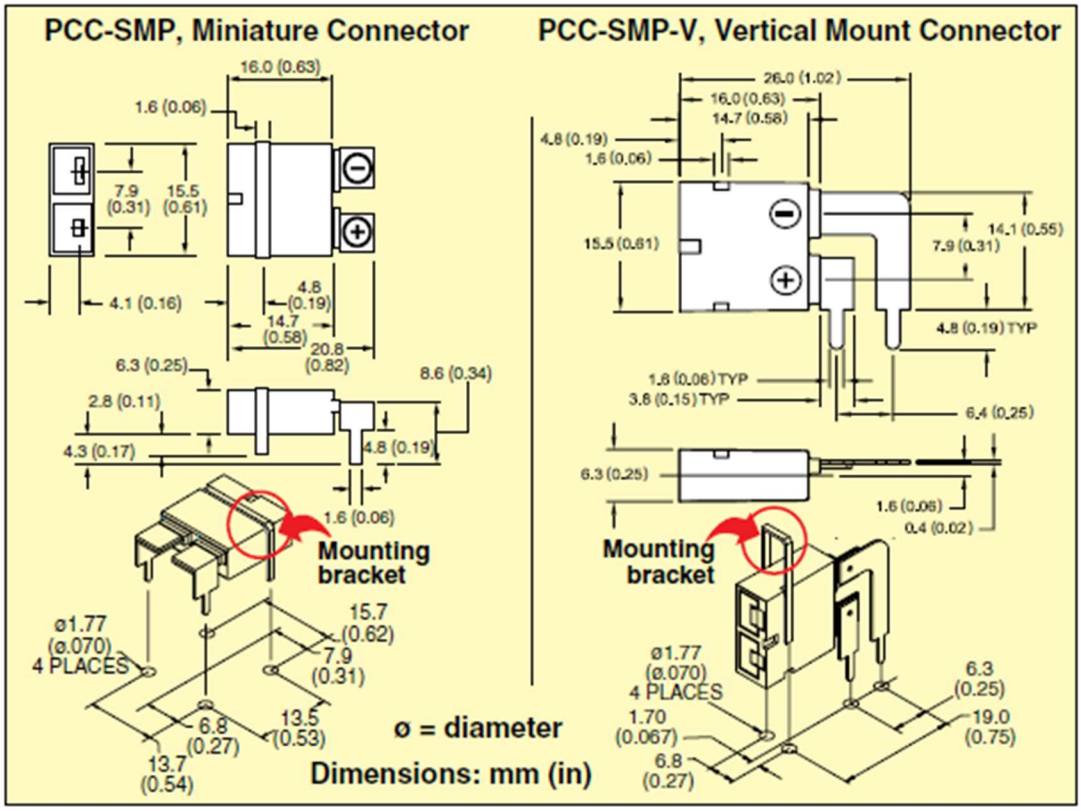
## Features

- **OEM design for production use**
- **Beryllium copper alloy material (for uncompensated version) for strength and durability**
- **OEM design for production use**
- **Attached directly to circuit board; mounting clip included with each connector**
- **Compact design, ideal for handheld meter production**
- **Temperature rating -29 to 180°C (-20 to 356°F)**
- **J, K, T, E, N and U (Beryllium Copper) Calibrations**
- **Custom units designed for 'closed end' requirements for "CE" requirements**
- **Sold in packs of 5, 50 and 100**

## Specifications

| | |
|---|---|
| **Temperature Range** | -29 to 180°C (-20 to 356°F) |
| **Pin Construction** | Appropriate alloy for J, K, T, N and E thermocouples.<br>Type "U" (uncompensated) uses Beryllium Copper alloy |
| **Mounting Style** | Solderable; mounts directly to PC board |
| **Mounting Orientation** | Horizontal (PCC-SMP); Vertical (PCC-SMP-V) |
| **Connection size** | Miniature |
| **Shell Material** | Glass-filled nylon |
| **Dimensions** | See drawing on next page |

## PCC-SMP Drawing




| To Order | | | |
|---|---|---|---|
| **Model Number** | **Pack size** | **Connector Style** | **Mating Connector** |
| PCC-SMP-(*)-5-(**)<br>PCC-SMP-(*)-50-(**)<br>PCC-SMP-(*)-100-(**) | 5<br>50<br>100 | Regular mount | SMPW series |
| PCC-SMP-V-(*)-5<br>PCC-SMP-V-(*)-50<br>PCC-SMP-V-(*)-100 | 5<br>50<br>100 | Vertical mount | SMPW series |

*Specify calibration: Choices: type J, K, T, E, N, and U (specify “UCB” for Beryllium Copper)
**For optional transistor retainer clip, add suffix “-R” to model number.
*This feature is not offered on “V” (vertical mount) connectors*.
For custom ‘closed-end’ connector, add “-CE” to model number.

Ordering Example: **PCC-SMP-UCB-100-R:** circuit board connector, miniature size, uncompensated, with beryllium copper pins, with transistor retaining clip, package of 100.