

- ¥ Two-piece connectors system designed in metric dimension on 2 millimeters grid over 5 rows.
- ¥ Standardized product through EIA (USA), IEC and CECC (international).
- ¥ Selected by IEEE as the interconnection system for Futurebus + / SCI / VicBus.
- ¥ Multi-sources product, use for telecommunication, network, server / workstation market.
- ¥ High temperature materials SMT compatible.
- ¥ Modular design giving flexibility for system design.
- ¥ Stackable end to end without loss of contact position.
- ¥ High density (more than 2 times as compared to the standard inch based " Euroconnector DIN 41612" ).
- ¥ Tuning Fork female contact concept for higher robustness and improved reliability (low contact resistance and high normal force).
- ¥ Low insertion force design.
- ¥ Inverse connector system (signal and power).
- ¥ Optimized solder and compliant press-fit terminations for backplane and circuit board connectors.
- ¥ 5 different mating lengths on signal and 3 on power for standard connector system.

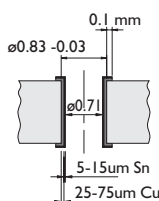
#### Technical data

| 1688 Series                  | Signal   | Power                            |
|------------------------------|--|----------------------------------|
| Housing                      | Liquid Crystal Polymer (LCP) UL 94V-0  |                                  |
| Contact                      | Male : Brass<br>Female : Phosphor Bronze<br>Press Fit Type : Phosphor Bronze |                                  |
| Operating Temperature        | - 65°C ~ + 125°C   |                                  |
| Contact Resistance           | 30m(ohm)max. at DC 500V  |                                  |
| Insulator Resistance         | 1000M(ohm)min. at DC 500V  |                                  |
| Current Rating               | 1 AMP  | 3 AMP                            |
| Withstanding Voltage         | AC 500V for 1 minute   |                                  |
| Insertion Force              | 0.45 N max.per individual contact  | 1.5 N max.per individual contact |
| Withdrawal Force             | 0.2 N min.per individual contact   | 0.5 N min.per individual contact |
| Contact retention in housing | Female = 5N , Male = 10N   |                                  |

## Thru Hold Specifications for Pressfit Technology, Thru Hold Drilling, SN and Bare CU

#### PCB Hole Tin Plated

|                         |                                   |
|-------------------------|-----------------------------------|
| Hole                    | ±0.71mm                           |
| Bore hold               | 0.80~0.83mm                       |
| Cu                      | 25~75 μm                          |
| Sn                      | 5~15 μm                           |
| Plated-Thru hold        | 0.71mm                            |
| PCB Thickness           | ±1.6mm                            |
| Press in Force Per Pin  | SIGNAL 100N Max. ,POWER 300N Max. |
| Retention Force Per Pin | SIGNAL 30N Max. ,POWER 90N Max.   |



Longitudinal Section of P.T.H.  
With Twinap Press-Fit Pin

