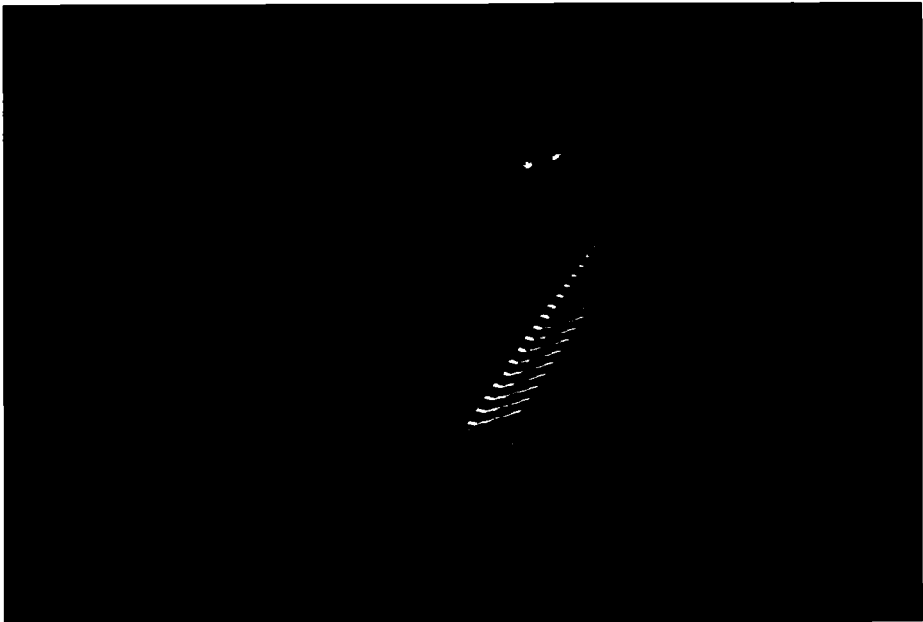




# Interconnection Systems

**PCMCIA and CompactFlash Connectors with Solder-Flux Bearing Leads**  
Innovative, award winning technology.

**Solder-Flux Bearing Lead Connector Soldering Equipment**  
Reduced applied cost with increased output.



▲ A precise amount of flux-core solder attached to each lead allows automated soldering via IR, Convection, or Teka HBS 6800 Reflow Machine

▲ Proven, consistent solder-joint reliability is assured—plus higher volume production at lower cost. Hand-soldering and rework are also eliminated.

TEKASO10\*

an **Interplex Industries** company



Winner 1996 Milton S. Kiver  
Award for Excellence  
in Electronic Packaging  
and Production



# PCMCIA and CompactFlash Connectors with Solder-Flux Bearing Leads

## GENERAL INFORMATION

Teka's "SBL" technology, winner of the 1994 SMT Vision Award, and the 1996 Milton S. Kiver Award, mechanically attaches to each lead a slug containing a precise and predetermined amount of solder and flux that can easily be reflowed and directed to the conductor pad. Once the connector is placed on the PCB, application of general or localized heat reflows each lead, forming a 100% reliable, rework-free solder joint.

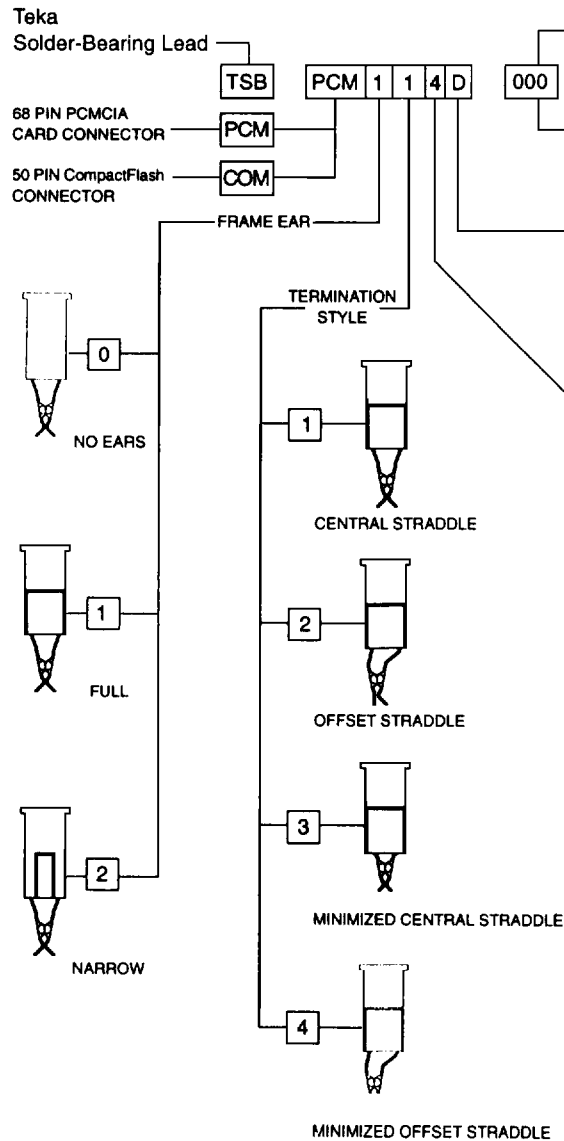
TSB and CompactFlash Series connectors can be soldered without the addition of solder paste in any conventional SMT conveyer oven, or with the Teka HBS 6800 Reflow Machine.

A high yield automated process for connector attachment is now available for PCMCIA and CompactFlash products. Hand soldering problems and rework due to lead coplanarity or PCB warp can now be eliminated.

## Features

- Meets all applicable PCMCIA and CompactFlash Association specifications
- PCB "real estate savings"
- IR and vapor phase compatible
- Lower applied cost with greater reliability
- Many solder and flux combinations available
- "Claw" design provides direct contact and wiping action between solder and flux preforms and conductor pads
- Mechanical integrity of straddle mounting
- Coplanarity not an issue, connector leads are pre-loaded on pads
- Proven technology, reliability and rework are not issues
- Pre-applied solder and flux preforms open up many automation possibilities
- Modular tooling allows compatibility with any frame type

## Ordering Information



## Part Number Codes

VARIATION CODE  
000 FOR PCB THICKNESS TO 0,6mm (.024")  
(CONSULT FACTORY FOR OTHER OPTIONS)

### SOLDER/FLUX OPTIONS

- A 60/40 RMA
  - D 63/37 NO CLEAN
- (CONSULT FACTORY FOR OTHER OPTIONS)

### PLATING OPTIONS

- 4 30µin Au IN CONTACT AREA, 100µin SnPb ON TAILS, ALL OVER 50µin Ni
  - V Au FLASH OVER 40µin PdNi IN CONTACT AREA, 100µin SnPb ON TAILS, ALL OVER 50µin Ni
- (CONSULT FACTORY FOR OTHER OPTIONS)

## SPECIFICATIONS

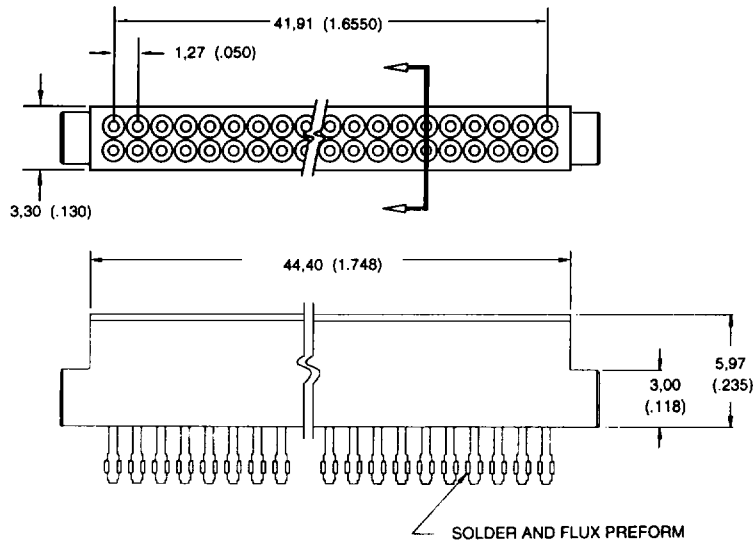
### Materials

- Contacts: BeCu
- Hi-temp housings: GF LCP, UL 94V0
- Solder and flux: see part numbering chart
- Finish: see part numbering chart

### Performance

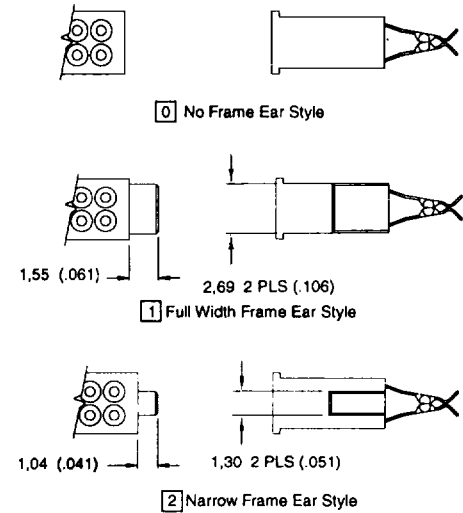
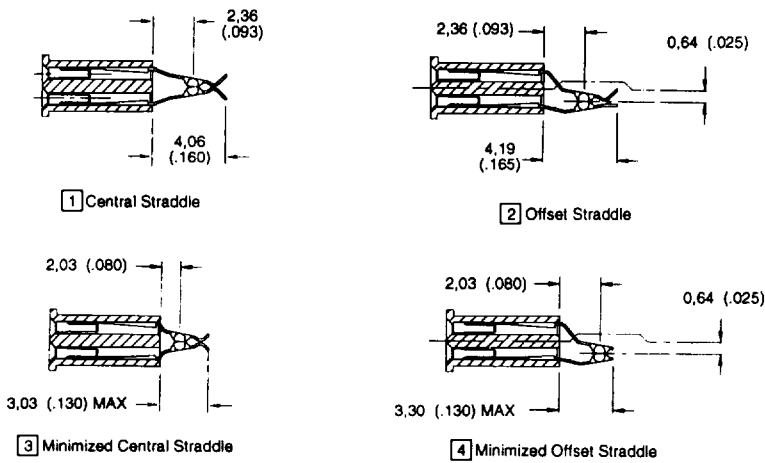
- Current rating: 1 amp max.
- Dielectric withstanding: 500 VAC RMS min.
- Insulation resistance: 1000 megohms min.
- Contact resistance: 30 milliohms max.
- Durability: per PC Card Standard

# PCMCIA



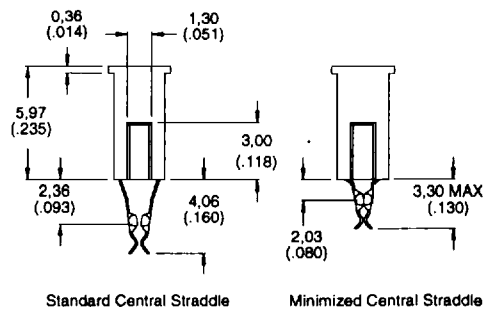
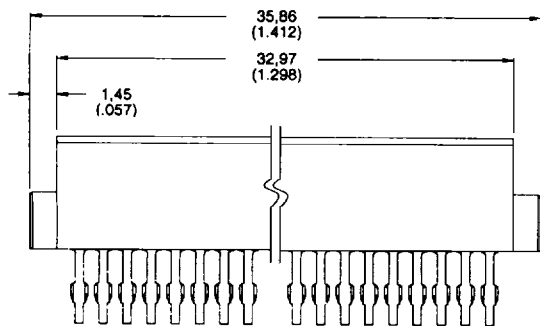
## Termination Options

## Mounting Frame Ear Options

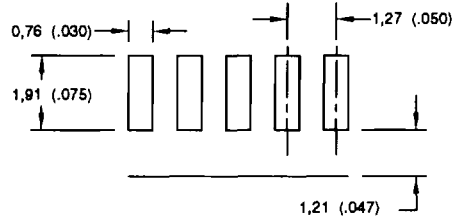


# CompactFlash

## Termination Options

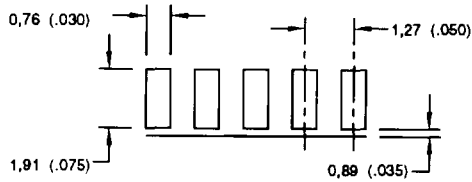


## PCB Real Estate Comparison and Recommended PCB Pad Layout

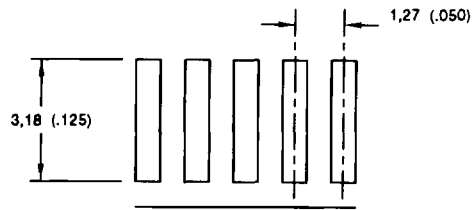


Termination **1** Central Straddle and

Termination **2** Offset Straddle



Termination **3** and **4** Minimized Straddle



\* Footprint for typical straddle connectors  
without "SBL" feature shown for comparison

***\* Although shown for comparison to demonstrate potential PCB real estate savings, Teka TSB connectors can be soldered to a larger pad***



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TSBR 6/96 5m



PCMCIA  
Member  
Company





## **Solder-Flux Bearing Lead Connector Soldering Equipment**

**Semi-Automatic Hot Bar  
Reflow for TEKA TSB  
Series Connectors**



### **MACHINE DESCRIPTION**

The HBS 6800 is a semi-automatic hot bar reflow machine for soldering TSB series "Solder Bearing Lead" connectors to PCMCIA printed circuit boards. An operator loads the PCB and connector into a nest and actuates the cycle. A linear slide transports the connector/pcb to the reflow station where the preset soldering parameters are executed, and then returns a completely soldered assembly.

### **CONTROLS AND ADJUSTMENTS**

Completely programmable and microprocessor controlled. All parameters are set via a 16 character LCD and 3-key keypad. A change to another setup requires no more than 5 minutes, including the substitution of another nest.

### **CYCLE TIME**

10 seconds for solder reflow

### **REQUIREMENTS**

Electrical: 110-220-240 VAC  
Air: clean filtered air at 6 Bar (87 psi)

### **DIMENSIONS**

Machine body: 74 cm long x 57 cm wide x 24.5 cm high (29.2 x 22.5 x 9.7)

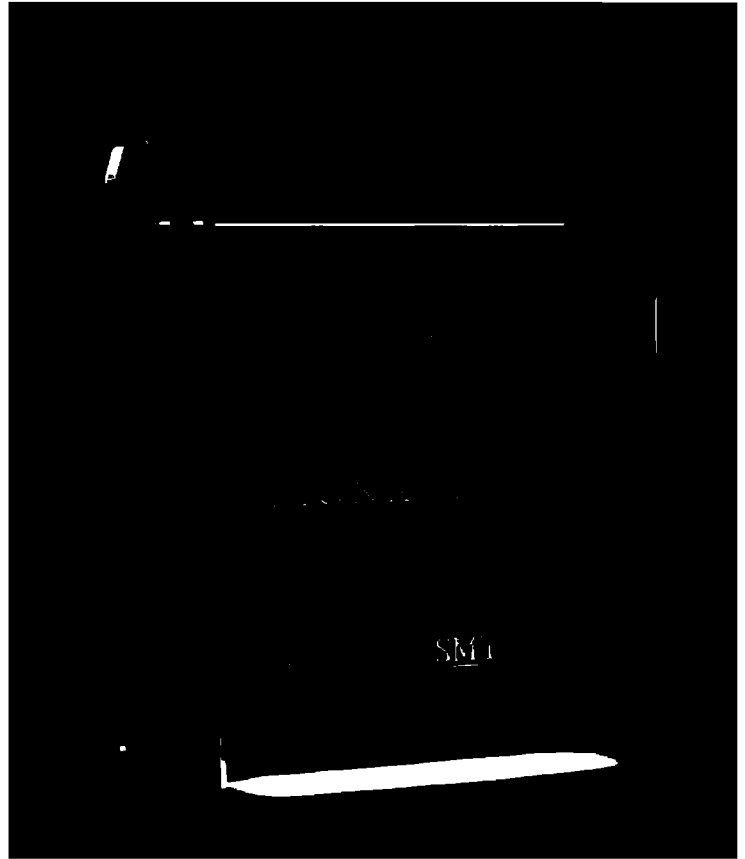
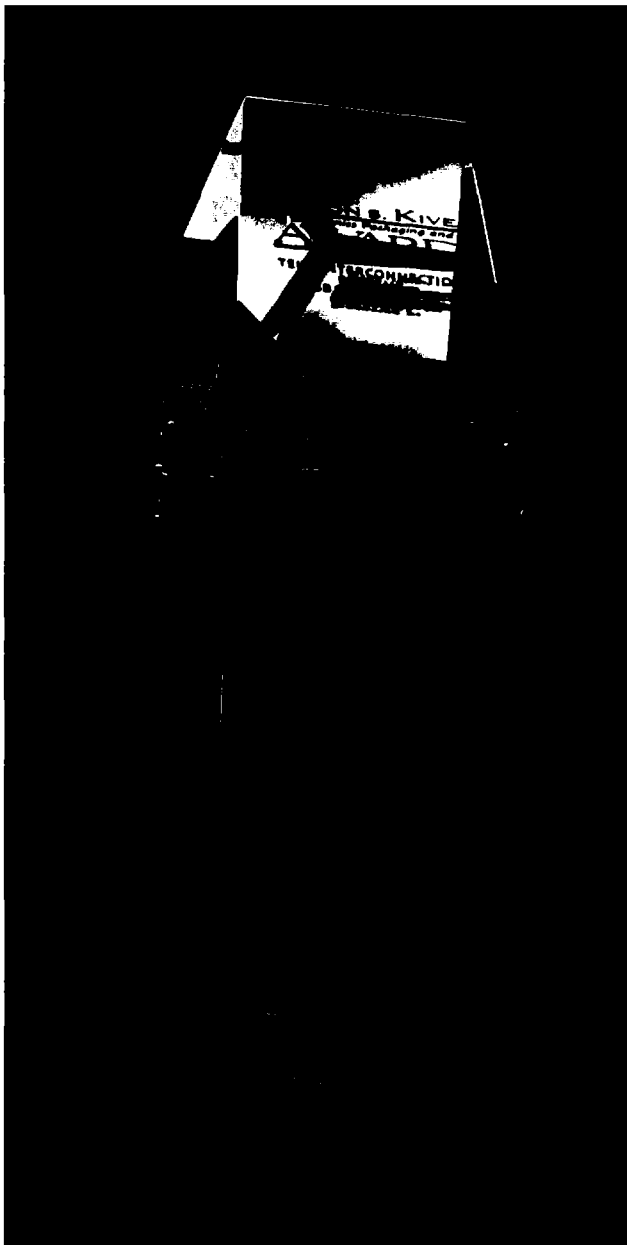
Weight: 50 kg (110 lbs)

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Visit our Web Site at [HTTP://W3.BBSNET.COM/TEKA](http://W3.BBSNET.COM/TEKA)

**IN 1994 IT WAS THE  
ONLY COMPONENT  
AWARDED  
THE VISION AWARD  
FROM SMT MAGAZINE ▶**



**IN 1996 WE TOPPED THAT**

**◀ THE ONLY COMPONENT  
AWARDED THE PRESTIGIOUS  
1996 MILTON S. KIVER  
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AND PRODUCTION MAGAZINE**

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