QFP80 - TET

Target CPU package: QFP80
Body size: 14 mm x 14 mm
Pitch: 0.65 mm
POD target layout: T_QFP80

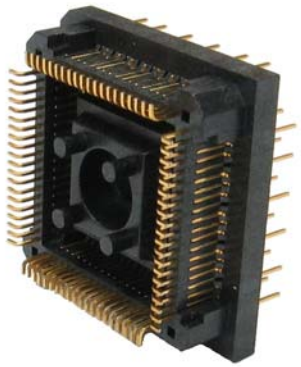
Can be used with:

- 78K0/Kx1 Active PRO POD
- 78K0/Kx2 Active PRO POD
- 78K0/Fx2 Active PRO POD
- 68HC08LK Active POD
- 68HC08LK POD
- 68HC05L16 POD
- EH-C515 POD
- EH-C505L POD
- EH-PSB2154 POD
- 68HC912B32 POD
- CR16MCS9 POD
- CR16 MHS9 POD
- CR16MCT9 POD
- 68HC912GA32 ActivePOD
- 68HC912B32 POD
- 68HC12B32 SmartPOD
- ST72F521 POD
- ST7MC1/MC2 POD

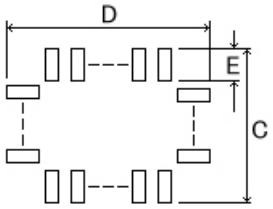
Note that adapter solutions stated in the document can be used only with listed PODs. Disregarding this warning may result in hardware failure of the target and the emulation system.

➤ Available Adapter Parts (by ordering code):

- **IA80TQ-SOLDER**

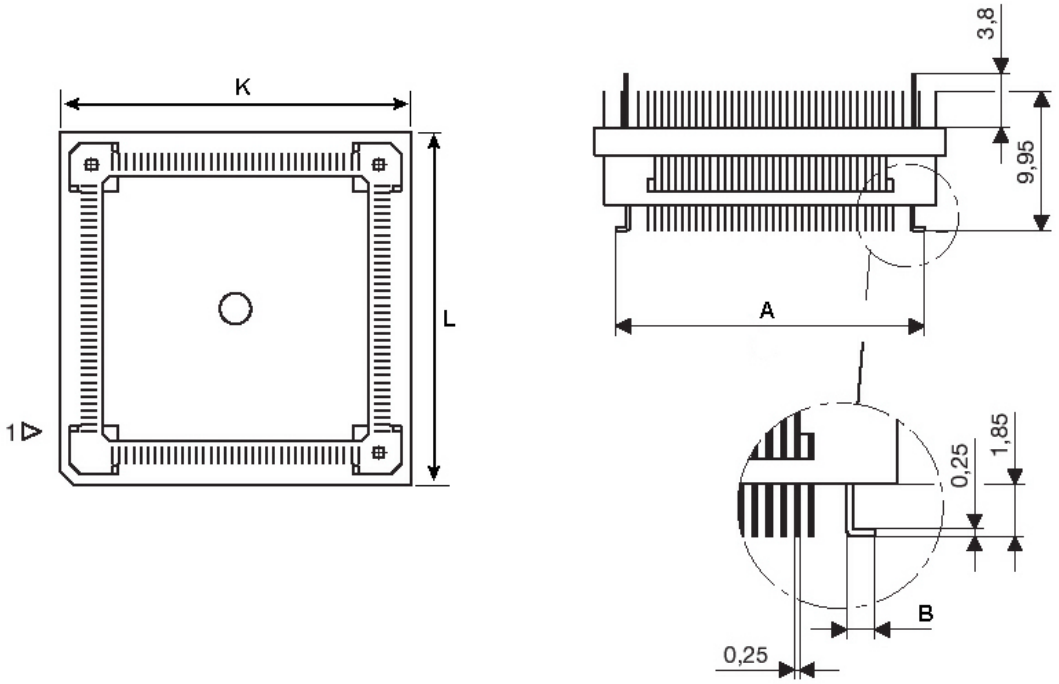


Solder part, which is being soldered to the target



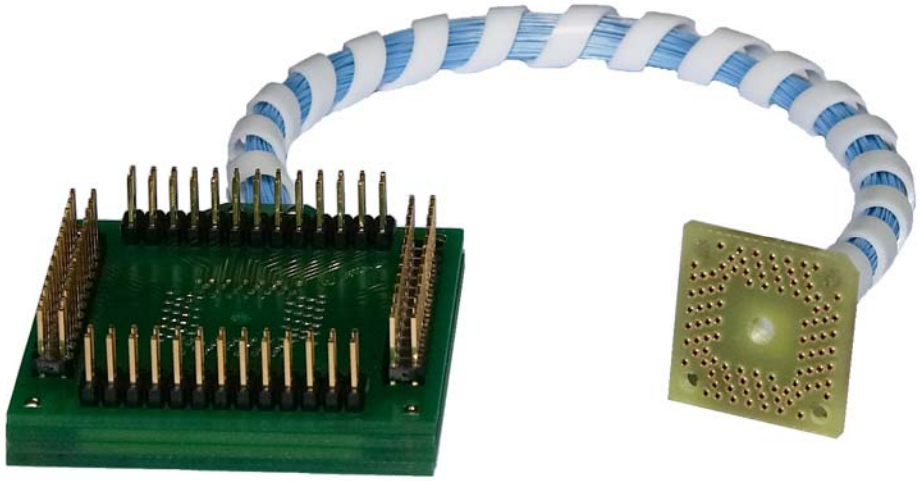
(Unit: mm)						
A	B	C	D	E	K	L
16.0	1.150	17.0	17.0	1.8	19.0	19.0

Recommended (by TET) PCB footprint size



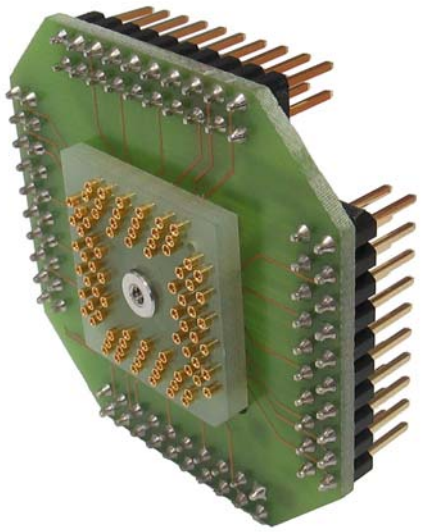
IA80TQ-SOLDER dimensions

- **IA80-TQ-WIRE**



The IA80TQ-WIRE represents flexible connection between the POD and the target. Above picture does not show exactly the IA80TQ-WIRE but IA100TQ-SOLDER which looks exactly the same considering that it has different pin count.

- **IA80TQ-FIXED**

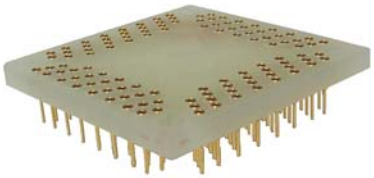


The IA80TQ-FIXED represents fixed inflexible connection between the POD and the target.

- **IA80TQSOC**

The IA80TQSOC is used to connect the CPU directly to the target.

- **IA80TQEXT**



The IA80TQEXT is a 3 mm extension. When it's used to prolong the IA80TQ-FIXED part, it may solve connection problems in a target with a restricted space around the CPU. It can be used also as a "socket saver" to protect the more expensive IA80-TQ-SOLDER part which may be damaged due to the carelessness when connecting/disconnecting the POD from the IA80TQ-SOLDER part.

- **IA80TQEXT-CAB**

The IA80TQEXT-CAB is a 30 mm extension and can be used to extend the adapter. When used, it is connected on top of the IA80TQ-SOLDER.

Flexible Adapter

The IA80TQ-WIRE and the IA80TQ-SOLDER are essential parts required to adapt the POD to the target QFP80 package. First, the IA80TQ-SOLDER is soldered to the target and then the POD is connected via the IA80TQ-WIRE

Pay attention to pin 1 while assembling the adapter and connecting the POD to the target. Improper use of the adapter or even incorrect adapter used with your particular POD can damage the emulation system and the target.

1. First, solder the IA80TQ-SOLDER to the target PCB. Now, if optionally the IA80TQEXT is used, it must be placed on top.
2. Next, connect the IA80TQ-WIRE to the POD.
3. Finally, connect the POD to the soldered IA80TQ-SOLDER.

Precaution must be taken after the POD is connected to the target. Adapter parts may break due to the user carelessness.

Fixed adapter

The IA80TQ-FIXED and the IA80TQ-SOLDER are essential parts required to adapt the POD to the target QFP80 package. First, the IA80TQ-SOLDER is soldered to the target and then the POD is connected via the IA80TQ-FIXED.

A flexible adapter is highly recommended to be used with Active or ActivePRO POD since the parts of fixed adapter solution can easily break due to the Active and ActivePRO POD size and weight.

➤ Assembly

Pay attention to pin 1 while assembling the adapter and connecting the POD to the target. Improper use of the adapter or even incorrect adapter used with your particular POD can damage the emulation system and the target.

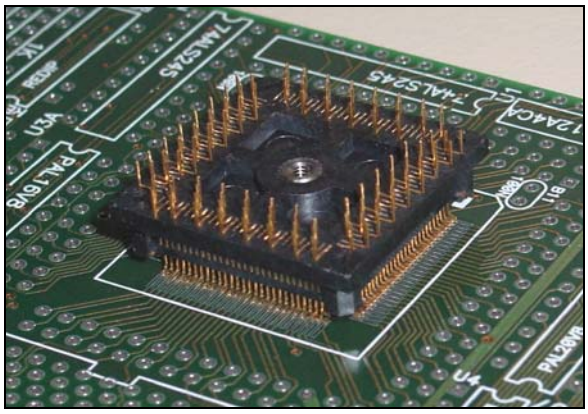
Step 1: Solder down the IA80TQ-SOLDER to the target PCB. Now, if optionally the IA80TQEXT is used, it must be placed on top.
Step 2: Connect the IA80TQ-FIXED to the POD.
Step 3. Finally, connect the POD to the soldered IA80TQ-SOLDER.

Precaution must be taken after the POD is connected to the target. Adapter parts may break due to the user carelessness.

Connecting the CPU directly to the target

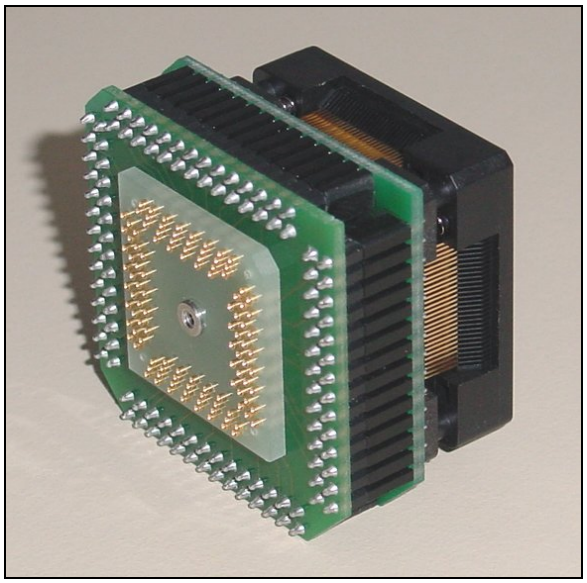
Using the IA80TQ-SOLDER and the IA80TQ-FIXED in combination with the IA80TQSOC, the CPU can be connected to the target. This solution is very suitable for an ultimate test.

Step 1: Solder the IA80TQ-SOLDER to the target PCB.



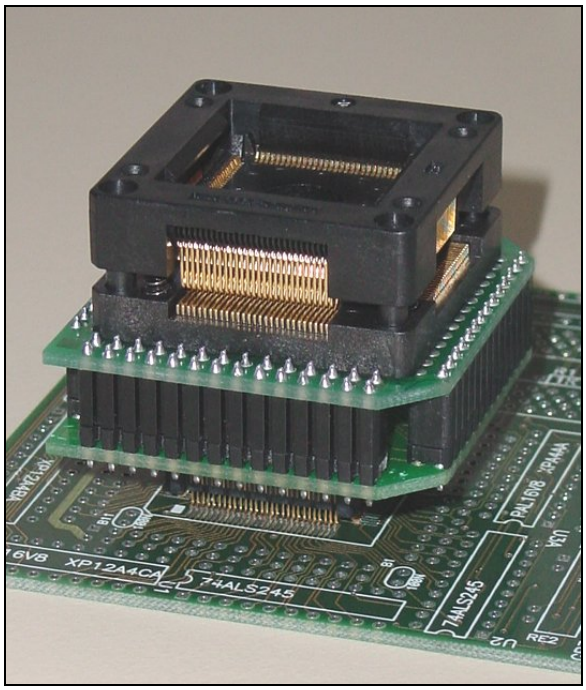
Note that above picture doesn't depict actual QFP80 adapter parts.

Step 2: Assemble the IA80TQ-FIXED and the IA80TQSOC.



Note that above picture doesn't depict actual QFP80 adapter parts.

Step 3: Connect the assembled IA80TQ-FIXED and IA80TQSOC to the IA80TQ-SOLDER. Now, the target CPU can be inserted into the socket.



Note that above picture doesn't depict actual QFP80 adapter parts.

Notes: