

## Adapters

### QFP80 TET

Target CPU package: QFP80  
 Body size: 14 mm x 14 mm  
 Pitch: 0.65 mm  
 POD target layout: T\_QFP112

Can be used with:

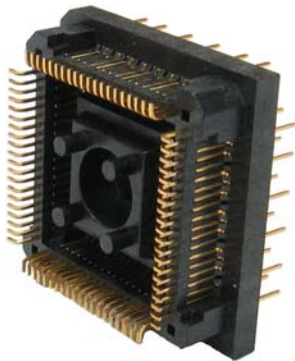
- MC9S12XDP512 Active PRO POD
- MC9S12XEP100 Active PRO POD
- MC9S12DP512 Active POD
- MC9S12 EXPANDED Active POD
- MCS912DP256 Active POD

This adapter must not be used when MC9S12DP512 Active POD emulates MC9S12Cxxx, MC9S12Qxxx and MC9S12GCxxx devices in the QFP80 package. A dedicated adapter is available for these devices.

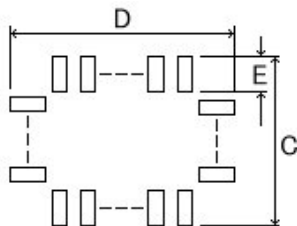
Described adapter parts can be used only with listed PODs. Disregarding this warning may result in a hardware failure of the emulation system and the target.

#### ► Available Adapter Parts (by ordering code):

- **IA80TQ-SOLDER**

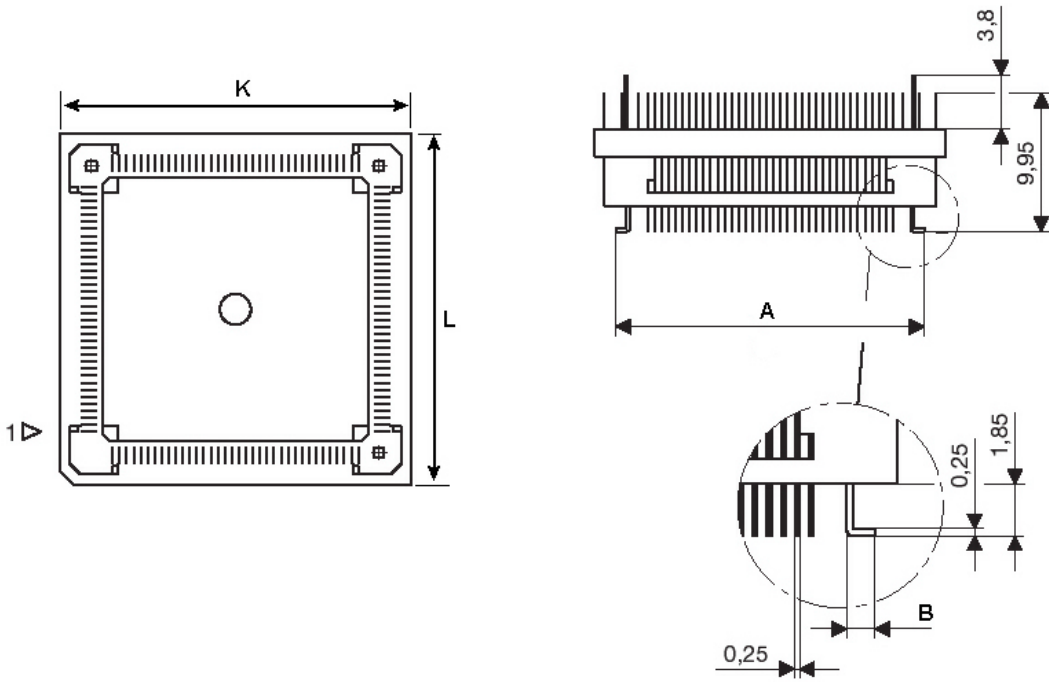


*Solder part, which is soldered to the target*



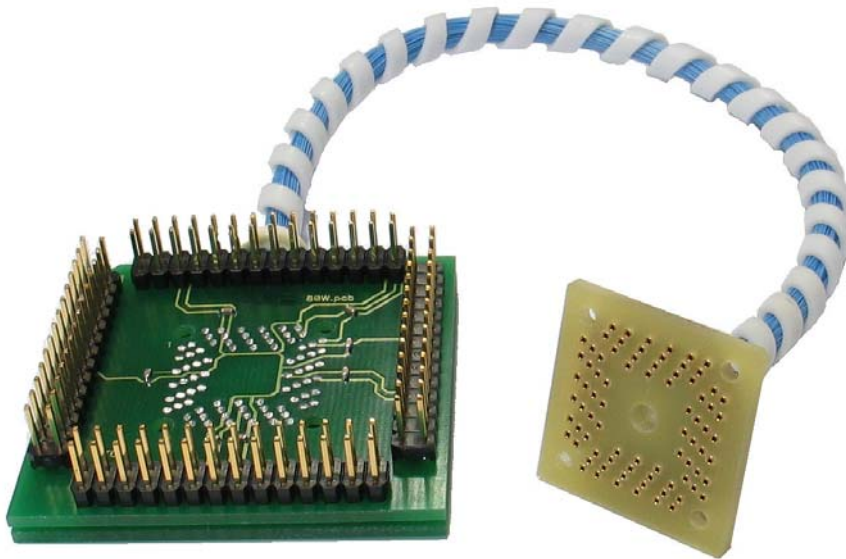
(Unit: mm)						
A	B	C	D	E	K	L
16	1.150	17.0	17.0	1.8	19.0	19.0

*Recommended (by TET) PCB footprint size*



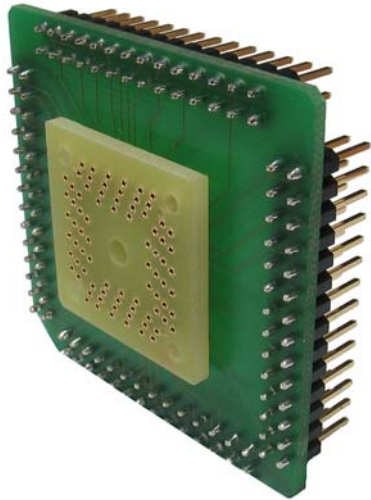
*IA80TQ-SOLDER dimensions*

- **IA112P80TQ-W-DP**



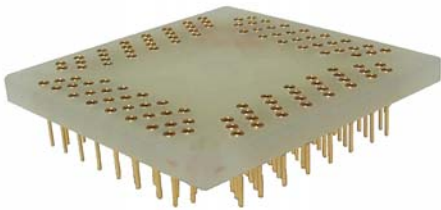
The IA112P80TQ-W-DP represents flexible connection between the POD and the target.

- **IA112P80TQ-F-DP**



The IA112P80TQ-F-DP represents fixed connection between the POD and the target. In general, it's recommended to use flexible connection (IA112P80TQ-W-DP) due to the size and weight of Active POD.

- **IA80TQEXT**



The IA80TQEXT is a 3 mm extension. When it's used to prolong the IA112P80TQ-F-DP 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 IA80TQ-SOLDER part which may be damaged due to the carelessness when connecting/disconnecting the POD from the IA80TQ-SOLDER part.

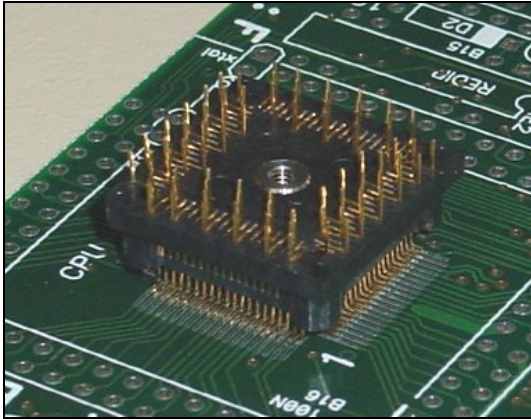
## ► Assembly

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While assembling the adapter and connecting the POD to the target, pay attention to pin 1 to prevent any damages of the hardware, which may result from incorrect assembly.

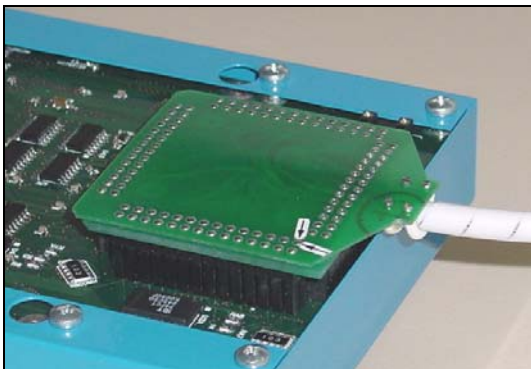
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**Step 1:** Solder the IA80TQ-SOLDER to the target PCB.



Now, if optionally the IA80TQEXT is used, it must be placed on top. It is not used in this particular case.

**Step 2:** Connect the IA112P80TQ-W-DP or IA112P80TQ-F-DP to the POD.



**Step 3:** Finally, connect the POD to the target.



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

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