

## Product data

### Features

OTP programming of POSIC's 18-pin SMD encoders IT5602 and AP5603

### Key Specifications

Supply voltage .....5 V / 6.5 V

Temperature .....0 to 50°C

Dimensions .....60 x 70 mm

### Description

The Programming Board is intended for OTP-programming of POSIC's 18-pin SMD encoders IT5602 and AP5603 prior to soldering. It is compatible to the Interface Board of the Evaluation and Programming Tool EPT002.

Fig 1 shows how to connect the Programming Board to the ASSIST Interface Board.

Fig 2 shows the opened socket containing an 18-pin encoder. To open the socket, the top side of the black lever must be pushed towards the center of the socket. Align the 18-pin encoder in the socket:

- The solder side\* (large copper pads) must be facing down.
- The sensing side\* (small copper pads) must be facing up.
- The round copper mark must be at the upper right side in

**Error! Reference source not found..** In the socket, this corner has a larger recess/indent than the other 3 corners

\* See IT5602 or AP5603 datasheet Fig 3.

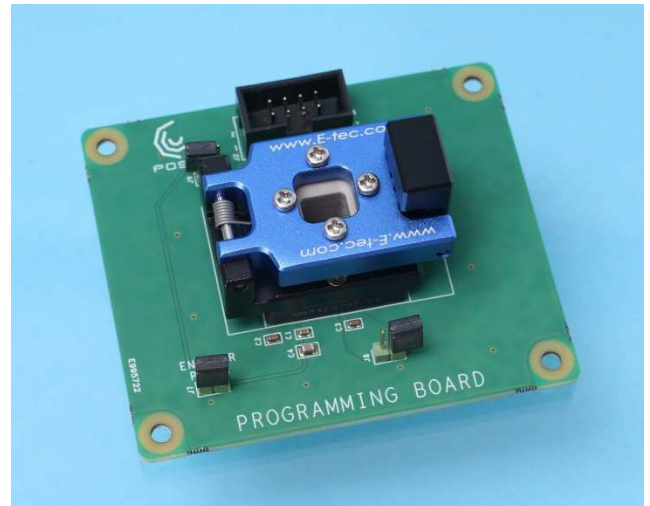


Fig 3 shows the dimensions of the Programming Board and provides the explanations for the three jumpers. Please note that jumpers J8 and J9 (4 and 5 in Fig 3) must be set/removed according to the type of encoder (IT5602 or AP5602).

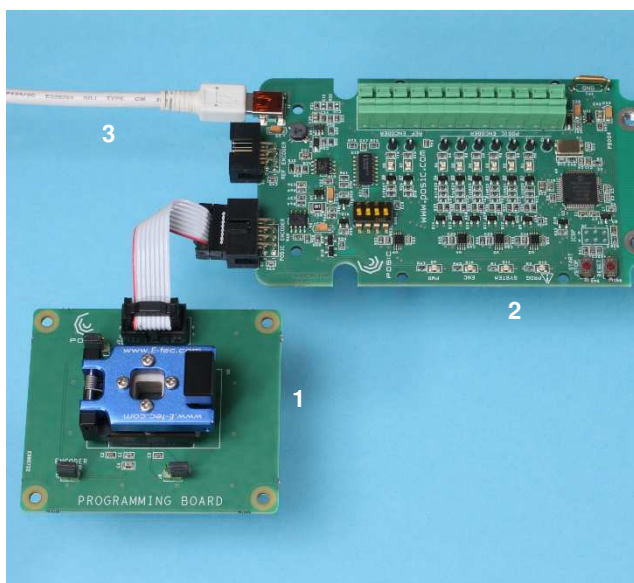


Fig 1 Programming Board (1) connected to ASSIST Interface Board (2), which is connected via USB cable (3) to PC with ASSIST software.

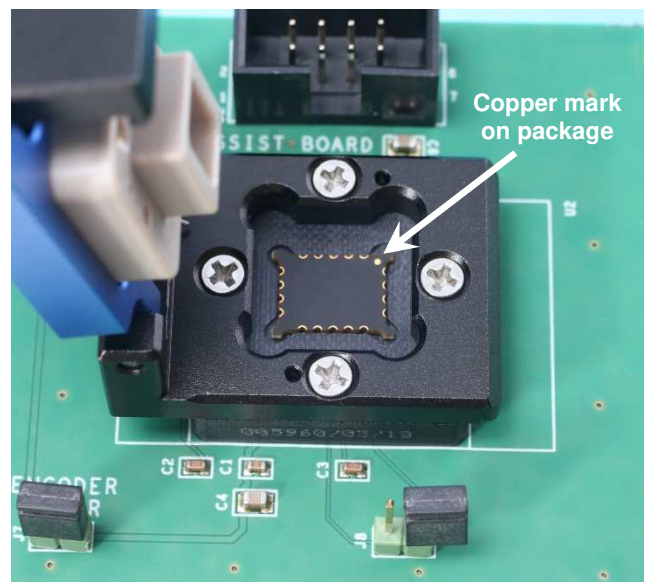
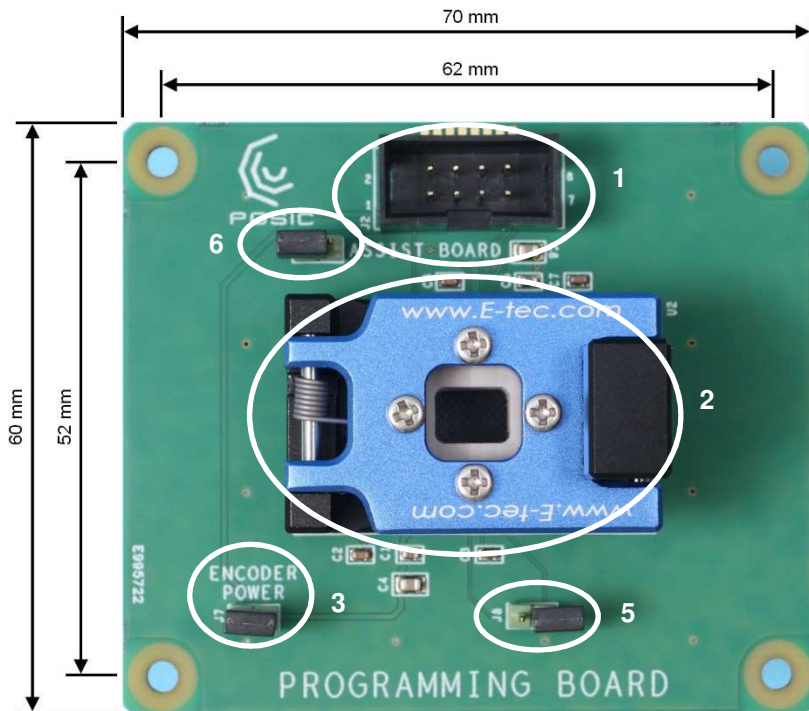


Fig 2 Programming Board, socket with lid open.

### Ordering information

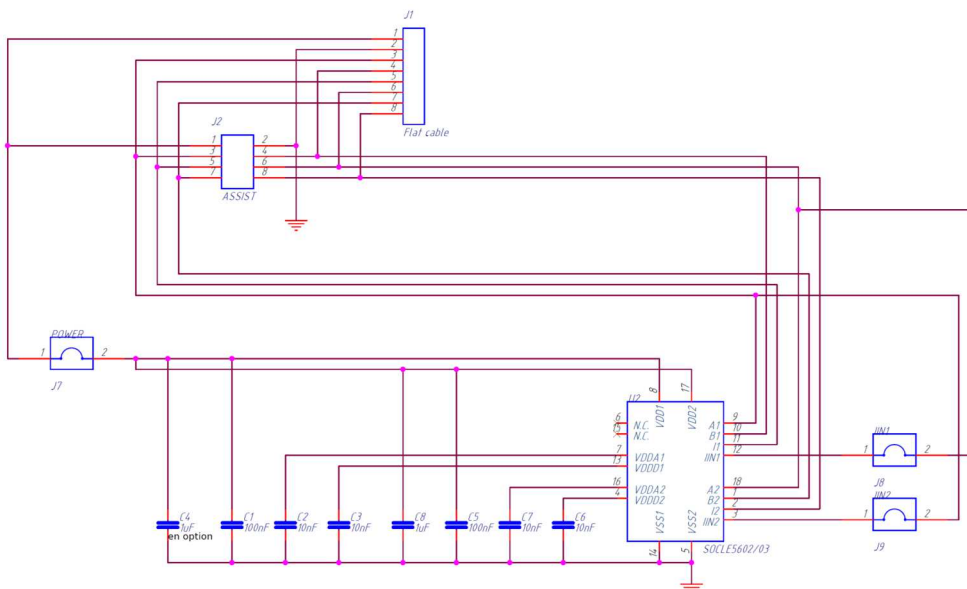
PRB018 Programming board with socket for 18-pin encoders IT5602 and AP5603 including flat cable for connection to ASSIST Interface Board.

## Technical drawings



- 1) 8-pin DIN41651 connector to ASSIST Interface Board
- 2) Socket
- 3) Encoder Power jumper J7
  - Present: encoder powered via ASSIST Interface Board connector
  - Removed: encoder not powered (can be powered via jumper-pin)
- 4) Jumper J8 must be removed
- 5) Jumper J9:
  - Present for operation with IT5602
  - Removed for operation with AP5603

Fig 3 Dimensions and explanations.



Pin	ASSIST Interf. Board	
	IT5602	AP5603
1	VDD, 5V Supply	
2	VSS, Ground	
3	A1	CLOCK1
4	B1	DATA1
5	I1	NC
6	A2	CLOCK2
7	B2	DATA2
8	I2	NC

Fig. 4 Schematic diagram.

Fig 6 Pinout connectors J1, J2.

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