

ABSTRACT
PRINTED CIRCUIT BOARD SOCKET

The printed circuit board socket comprises a cross-sectionally rectangular metal socket housing (1), fixable to a circuit board (2) and an insulator (3), having a corresponding rectangular cross-section, which is inserted in the socket housing. The insulator preferably has four signal contacts (4), constructed as contact pins, which are located in juxtaposed manner in one plane and standardized according to the USB concept, which on plugging in the bus plug cooperate with the four juxtaposed opposite contacts provided therein and produce the electric contact. These signal contacts (4) are connectable by means of downwardly directed connection ends (5) to the contact points of the circuit board (2). A particularly space-saving, but still firm hold-ensuring construction, which is connected by a simpler soldering method, is characterized in that the bottom of the socket housing (1) is solderable in the reflow process to the circuit board (2) by supporting and connecting areas (11', 11'') ensuring a spacing from the circuit board (2). In the bottom area of the socket housing (1) is provided a channel (12) through which the downwardly directed and then bent connection ends (5), constructed as SMT contacts, of the signal contacts (4) of the insulator (3) inserted in the socket housing (1) extend to the associated conductors of the circuit board (2). The supporting and connecting areas are formed by fixing plates (11', 11''), bent round by approximately 180° downwards and rearwards and emanating from the lower leading edge of the socket housing (1) and which in each case have a punched out hole with a collar (16), facing the circuit board and shaped on the rim of the hole and which engages in an opening (17) of the circuit board (2).

(Fig. 1)