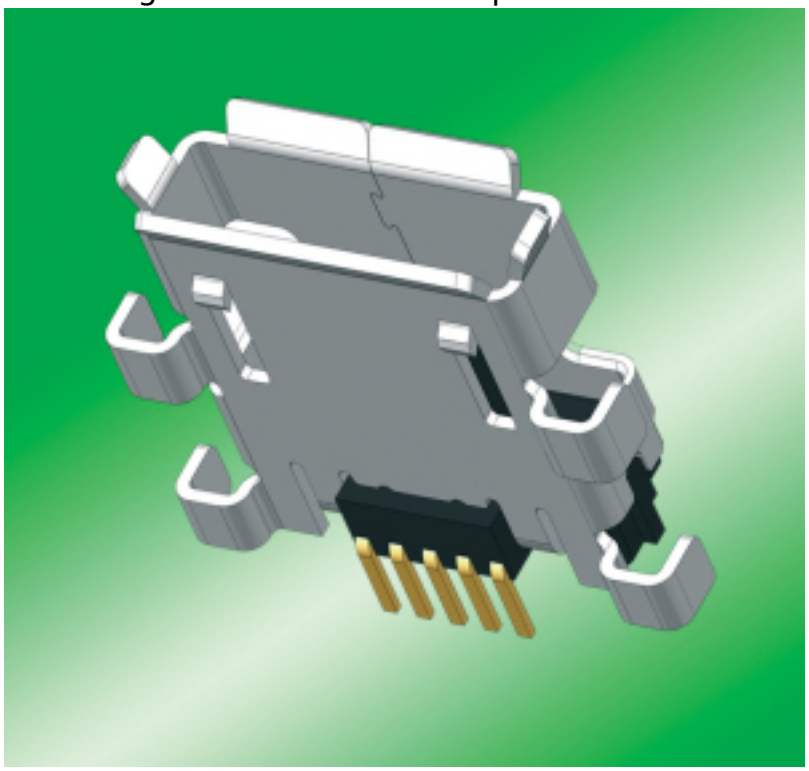
Micro-AB USB receptacle from Suyin for sturdy under-board mounting

ECN Europe

The new 5-position Micro USB receptacle from Suyin [1]'s 020039MB005S507ZL model series features a reverse-bottom, type AB design, and is thus suited for mounting on the underside of printed circuit boards.



[2]

Picture: Suyin

The AB label means that the receptacle can accommodate both Micro-A (rectangular housing) and Micro-B (angled housing) USB plugs. The receptacle's five contact terminals with a 0.65mm pitch are connected to the board using surface-mount technology. Two THT lock-in pins on the receptacle's underside and two gull-wing side-mounted THT leads on each side provide additional sturdy anchoring onto the board and ensure a reliable hold, even when the receptacle is subjected to high insertion and removal forces.

The number of mating cycles is specified at 10,000. Other key specifications for this very compact Micro-AB USB receptacle with dimensions of 5.85 x 9.60 x 3.27 (L x W x H in mm, overall) include the contact rating of 30VDC /1.8A (pins 1 and 5) and 30VDC /0.5A (pins 2 through 4), the contact resistance of 30m? (max.), the insulation resistance of 50 M? (min. initial) and the operating temperature range of -40 °C to +105 °C. Typical applications include portable/mobile devices, such as mobile phones, digital cameras, flash drives, navigation systems and others.

SOURCE [3]

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