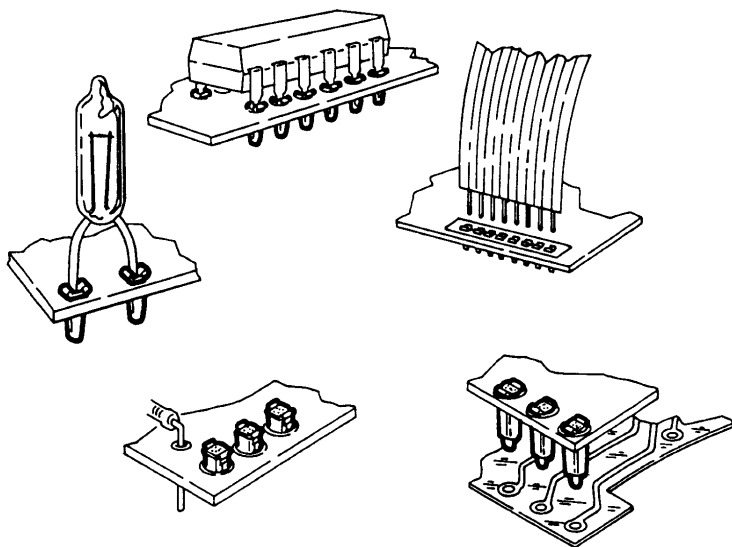


# Miniature Sockets Minisert™

## Board Components

### Features

- Minisert facilitates PCB mounting of ICs, resistors, capacitors, diodes, miniature lamps, and other discrete components.
- Low-profile miniature receptacle is designed for dense packaging.
- Unique cup and spring design ensures positive retention in the board prior to direct contact-to-board soldering.
- Fits a wide range of hole sizes, from 1,27 mm to 1,47 mm.
- Accepts a wide range of round and flat leads.
- Elastomeric seal at entrance prevents contamination before and after insertion of the components lead.
- Maintains high contact force during repeated mating cycles.
- Double-Bump Minisert permits automatic lead trimming of components and can be inserted into PCBs at two different heights.
- Extended-Tip Minisert has a unique double function as a receptacle and a header, and allows direct termination of flexible circuitry.
- Available in loose pieces, on Kapton® polyimide film, or on a metal carrier strip, ready for high-speed, automatic insertion.



### Technical data

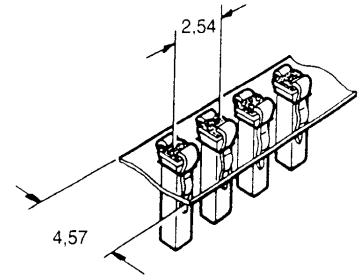
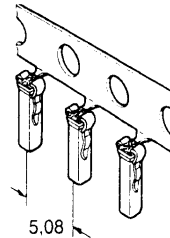
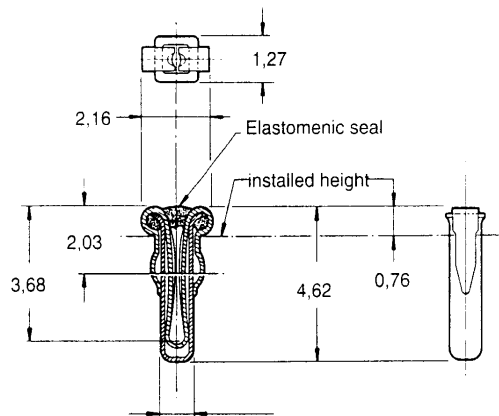
Receptacle	Materials	Cup: Copper alloy; Spring: Beryllium-copper
Mating data		
Mates with the following leads		Round 0,30 - 0,56 mm dia
		Flat 0,20 - 0,38 x 0,38 - 0,64 mm
		Square 0,38 x 0,38 mm
Insertion force*		Round leads 0,41 mm: 4,5 N max.
		Flat leads 0,25 x 0,64 mm: 4,5 N max.
		Square leads 0,38 x 0,38 mm: 4,5 N max.
Withdrawal force		Round leads 0,30 N; Flat leads 0,50 N min.
Retention force		Unsoldered 1,50 N min. inserted into 1,47 mm dia. hole
Durability		25 mating cycles
Plating/performance	Cup Spring	Tin/lead Class II gold, in accordance to BE performance reference
Electrical Performance	Current rating	2,5 A max.
	Contact resistance	2,0 mΩ max.
	low level circuit resistance	2,0 mΩ max. (1 mA at 20 mV)
Packaging		See ordering data

\* The insertion force experienced by a lead with a non-uniform lead-tip may differ significantly from the value stated; pre-piercing of the

# Miniature Sockets Minisert

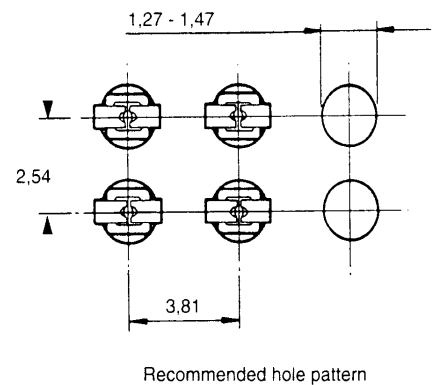
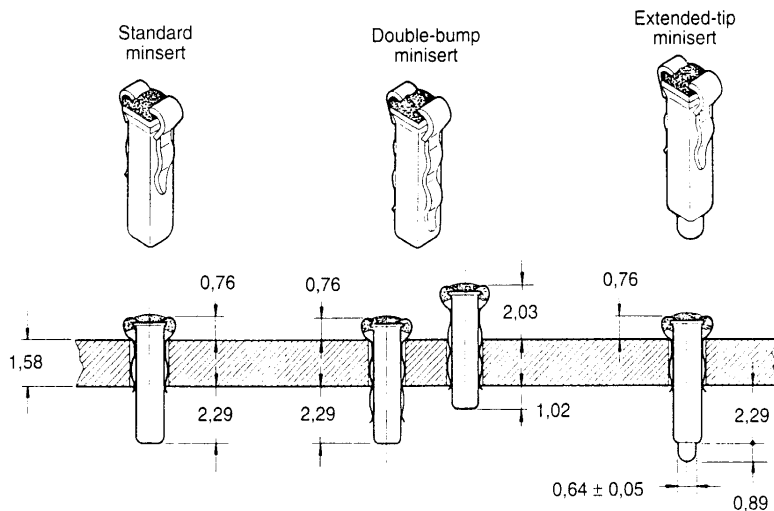
## Minisert™ Miniature Receptacles

Dimensions in mm



ON REEL (standard, double-bump and extended-tip)

ON KAPTON TAPE (standard)



## Specifications

- MIL-C-21768 (Copper alloy)
- QQ-C-533 (Beryllium alloy)
- QQ-N-290 (Nickel plating)
- MIL-G-45204B (Gold plating)
- MIL-STD-202, method 101, cond. B (corrosion)
- MIL-STD-202, method 106 (Moisture resistance)
- MIL-STD-202, method 107, cond. B (Thermal shock)
- MIL-STD-202, method 108, cond. B (Ambient temperature life)
- MIL-STD-202, method 307 (Contact resistance)
- MIL-STD-1344, method 3002.1 (Low signal contact resistance)

## Ordering data

Minisert configuration	packaging style	Quantity packaging	partnumber
Standard	Kapton-Tape	25000	75540 - 001
Standard	Kapton-Tape	5000	75540 - 002
Standard	Reels	25000	75060 - 012
Standard	Reels	5000	75060 - 013
Standard	Bags	1000	75315 - 001
Double-Bump	Reels	25000	76693 - 001
Double-Bump	Reels	5000	76693 - 002
Extended-Tip	Reels	25000	76224 - 001