

ABSTRACT

SURFACE MOUNT TECHNOLOGY LAND GRID ARRAY SOCKET

An electrical socket comprises a frame (14) having a bottom surface (30) configured to abut against a circuit board. The frame includes sides surrounding a processor opening, and a housing (16) is mounted in the frame below the processor opening. The housing holds an array of contacts having contact arms (92) that extend into the processor opening and solder balls (94) that extend below the bottom surface. The sides of the frame include shelves (44) that extend parallel to the bottom surface. The shelves are arranged to be contacted by a processor (18) that is installed in the processor opening. The shelves are spaced from the bottom surface at a distance (46) which is pre-selected to limit a maximum compressive load which can be applied to the contacts when the processor is installed in the processor opening.

Figure 1.