

ABSTRACT

HIGH-SPEED EDGE CONNECTOR

An electrical edge connector and a terminal
therefore for connecting a first electrical circuit board
to a second electrical circuit board, the first
electrical circuit board having an insertion edge and two
sides, the connector comprising an elongated dielectric
housing having therein a longitudinal slot for receiving
the insertion edge of the first electrical circuit board
and a plurality of transverse terminal receiving cavities
adjoining the slot on each side of the slot, and a
plurality of signal terminals disposed within some of the
terminal retention cavities on each side of the slot and
a plurality of ground terminals disposed within others of
the terminal retention cavities on each side of the slot,
the signal and ground terminals each having a base
portion, a retention portion extending from the base
portion and retaining the terminal in one of the
retention cavities, a tail portion extending from the
base portion for electrically connecting the terminal to
the second electrical circuit, and a spring arm connected
to the base portion for electrically connecting the
terminal to the first electrical circuit board, the
ground terminals including a generally tapered, enlarged
surface area portion for enhancing electrical coupling
between the ground terminal and an adjacent signal
terminal.

This Sheet Has Been Replaced

