



ABSTRACT OF THE DISCLOSURE

SURFACE MOUNT CONNECTOR WITH INTEGRATED POWER LEADS

5 A connector assembly (10) includes two interengaging plug
connector and receptacle connector halves (16,18) with power
and circuitry terminals (52,82,38,74) integrated therein.
Each of the plug and receptacle connector halves (16,18)
include respective dual plug and receptacle housings (60,20)
10 spaced apart from each other in a substantially parallel
relationship. The dual connector housings (60,20) of the plug
and receptacle connector halves (16,18) are evenly spaced
apart by bridging pieces (50,80) which extend between the
connector housings to connect them together. The bridging
pieces may either be integrally formed with the connector
15 housings (20,60) or they may be separately formed (208) from
the connector housings and include engagement members
(210,212) which engage the connector housings. The bridging
pieces (50,80) have power terminals (52,82) disposed therein
so that the connector effects a connection not only between
20 signal circuits of the circuit boards, but also between power
circuits.