1970

Development of pin-insertion laminated ceramic packages

~ Packaging ~

Pin insertion type DILC (Dual In Line Ceramic) 16-pin with pin pitch of 100 mil (2.54 mm) and row pitch of 300 mil was developed and mass-produced at Musashi Works of Hitachi in 1967, applying the multilayered ceramic technology introduced from RCA.

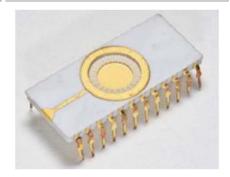
The DILC 16-pin was adopted for the ICs for electronic exchangers which began to replace the crossbar exchangers.

In the next year, around 1970, 24-pin/28-pin DILC was developed and applied to calculator ICs, MSIs etc. The picture at the bottom is a 2-chip in 1-package device that mounts 2 LSI chips in one package, which was mounted on PCB as the pin insertion type by 90-degrees bending of frame after assembly.









28-pin DILC (2-die package, after die attach and before cap seal)

