

ABSTRACT

CARRIER TAPE FOR ELECTRONIC COMPONENTS

5 A flexible carrier tape for transporting a plurality of components includes a flexible substrate and a plurality of spaced apart pockets formed in the flexible substrate to receive and store a component. Each pocket is defined by a bottom wall, opposing side walls and opposing end walls. The bottom wall includes a structured top surface comprising a plurality of first channels forming a regular pattern at a first pitch. A Fourier transform of the regular pattern
10 comprises a first peak at a first spatial frequency corresponding to the first pitch. The bottom wall further includes opposing second channels deeper than the first channels. In a cross-section of the pocket, a curved region joins each side wall to a top surface of the substrate. A radius of curvature of a circle best fitting the curved region is less than about 200 microns.

15 Fig. 1