This Sheet Has Been Replaced

ABSTRACT

FLEX TAPE ASSEMBLY FOR USE IN BGA PACKAGING

To allow the current BGA systems to be able to handle the very flexible flex tape, rigidity is provided to the flex tape through the use of stiffeners. The flex tape assembly for use in BGA packaging includes a flex tape having a flex tape snap fit hole, a flex tape pre-locating hole, and a flex tape push rod hole. A top stiffener is placed on the top side of the flex tape. The top stiffener has an opening to receive a molded package, a snap fit hole, a top pre-locating hole, and a push rod hole. A bottom stiffener is placed on the bottom side of the flex tape. The bottom stiffener has an embossed cap, a bottom pre-locating hole, and a slot. The embossed cap is fitted inside the snap fit hole and flex tape snap fit hole. The flex tape push rod hole and push rod hole on the top stiffener are aligned with each other, and the top and bottom pre-locating holes and the flex tape pre-locating holes are used to align the top and bottom stiffeners and the flex tape.