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Shear Ram Height Investigation for Gold Wire Bond Shear Test

Abstract

This paper presents the simulation of gold wire bond shear test. The stress and strain response of the gold ball bond during wire bond shear was examined. The simulation was done using a A 3D non-linear finite element model. The effects of the shear ram height on the stress and strain response of the gold ball bond were investigated. The results of the simulation confirms that shear ram height has a significant effect on the von mises stress and equivalent strain response of the gold ball bond during wire bond shear test.

Keywords; Shear Test, Wirebond