

ABSTRACT

SORTING METHOD OF BONDING WIRE AND MANAGEMENT METHOD OF DIAMOND DICE FOR BONDING WIRE

Judging quality of leaning defect before bonding of ultra fine gold bonding wire, and managing the quality.

Dividing imperceptibly the whole circumference of the bonding wire before bonding, measuring diameter of bonding wire divided the circumference portion, using the measured value, integrating each division in axis direction of circumference portion, calculating each N order moment of cross-section at said direction of wire section, it is to sort comparing the maximum value of N order moment of area calculated with the minimum value of that.

A to D which is small at difference of measured second moment of area from second moment of area as N order moment of area, or ratio (%), though it is polygonal of large difference of measured value of wire diameter, does not generate leaning defect. According to the condition of less than 1 % of the ratio of second moment of area, it is able to sort and to manage uneven cross-section wire including ellipse generating leaning defect, moreover it is effective to manage wear degree of diamond dice.

Fig.9