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**A MOLDED LOCATING DEVICE FOR ELECTRONIC
ELEMENT**

BACKGROUND OF THE INVENTION

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(1) Field of the invention

This invention relates to a molded locating device for electronic element, especially a molded locating seat on which a plurality of electronic elements can be located firmly, thus the
10 electronic elements located at the molded locating seat can be inserted into the inserting holes on printed circuit board at one time.

(2) Description of the prior art

For general industry, raising working efficiency and
15 reducing manufacturing cost can raise its marketing competition. As to the electronic industry, the printed circuit board is used widely for most electronic equipment or device, on the printed circuit board can be inserted with some electronic elements so as to connect circuit.

20 The Fig.1 shows electronic element 10, such as resistance element, inserted into the inserting holes 12 of printed circuit board 11, these electronic elements 10 cannot be inserted on the printed circuit board 11 by automatic inserting machine, the operator must insert the electronic element on the printed circuit
25 board individually by manual operation. But such kind of installation have some deficiencies described as follows :

(1) It is very inconvenient for the operator to insert electronic elements into printed circuit board by manual

operation that may raise manufacturing cost and installation time.

(2) In manufacturing process or super-tin treating on printed circuit board, the electronic elements may be separated
5 from printed circuit board; the operator must insert the fallen electronic elements into printed circuit board again by manual operation.

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SUMMARY OF THE INVENTION

It is therefore the main object of this invention to provide a molded locating device for electronic element, especially a molded locating seat on which a plurality of electronic elements
15 can be located firmly, thus the electronic elements located at the molded locating seat can be inserted into the inserting holes on printed circuit board at one time.

It is another object of this invention to provide a molded locating device for electronic element, which can reduce
20 installation time and manufacturing cost.

BRIEF DESCRIPTION OF THE DRAWINGS

In the drawings, which illustrate the preferred embodiments
25 and modes of operation of the invention, and in which like reference characters designate the same or similar parts throughout the several views :

Fig.1 is a perspective view showing electronic elements

inserted on a printed circuit board;

Fig.2 is a perspective view showing a molded locating device for electronic elements of my present invention ;

Fig.3 is an exploded view of the molded locating device for
5 electronic elements ; and

Fig.4 is a perspective view showing an embodiment of this invention.

10 DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring to Fig.2 and Fig.3, the present invention, a molded locating device for electronic element, is composed of a molded locating seat 30.

15 The molded locating seat 30 have a plurality of locating grooves 31 formed at its one side, the distance of these locating grooves 31 can be designed according to the present printed circuit board. The other side of this molded locating seat 30 having a plurality of inserting flutes 32 opposite to the locating
20 grooves 31, such that, the electronic elements 20, such as resistance element, can be located at the locating seat 30, the resistors 21 being located respectively at the locating grooves 31 and the legs 22 of these resistors 21 being inserted respectively into the inserting flutes 32 so as to fix the
25 electronic elements 20 on the locating seat 30.

Accordingly, the electronic elements 20 located at the locating seat 30 can be inserted into the inserting holes on

printed circuit board 40 at one time.

It is understood by those skilled in the art that the forgoing description is a preferred embodiment of the disclosed device and that various changes and modification may be made in the
5 invention without departing from the spirit and scope thereof.

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**WHAT IS CLAIMED IS :**

1. A molded locating device for electronic element, which comprising a molded locating seat, a plurality of resistance
5 elements and a printed circuit board, the improvement comprising :

said molded locating seat having a plurality of locating grooves formed at its one side, the distance between any two locating grooves can be designed according to standard of said
10 molded locating seat having a plurality of inserting flutes opposite respectively to said locating grooves, each said resistance element having a resistor and a leg, the resistors being located at said locating grooves and the legs being inserted respectively into said inserting flutes, such that, said
15 resistance element can be located at said molded locating seat and can be inserted on said printed circuit board at one time.