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PTC element

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PTC-Element

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Élément PCT

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Application
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Abstract (en)
[origin: EP0790625A2] A PTC element (1) comprises an essentially plate-shaped PTC substrate (2), composed of a crystalline polymer having conductive particles dispersed therein. The PTC element includes a pair of electrode films (3) provided on the front and back surfaces of the PTC substrate; a pair of insulating layers (7a,7b), each of which covers one of two opposing side faces of the PTC substrate and a portion of one of the electrode films (3); and a pair of film-like electrodes (9) provided on the surfaces of the insulating layers in such a manner as to be in electrical contact with the portions of the electrode films that are not covered by the insulating layers. The electrodes are in the form of films and disposed at the side faces of the element, so the element may be surface mounted despite its small size. The electrodes extending from the front surface to the back surface of the PTC substrate permit the element to be mounted on the surface of a printed board at the point where the electrodes face the printed board and also at the points where the electrodes extend perpendicularly to the printed board. Such a PTC element can be convenient to mount with improved reliability in the attachment of electrodes and may be easier to manufacture. <IMAGE>

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IPC 8 full level
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