

THERMAL DEFORMATION MEMBER FOR ELECTRON TUBE AND
COLOR PICTURE TUBE USING THEREOF, AND THERMAL DEFORMATION
MEMBER FOR ELECTRIC CURRENT CONTROL AND CIRCUIT BREAKER
USING THEREOF

A high thermal expansion member 1 consisting of such as an Fe-Ni-Cr based alloy, a low thermal expansion member 2 consisting of such as an Fe-Ni based alloy, and an intermediary member 4, which comprises one kind of metal selected from Fe, Al and Cu or an alloy comprising these metals, possesses a thermal expansion coefficient α_3 which is located between those of the high thermal expansion member (thermal expansion coefficient α_1) 1 and the low thermal expansion member (thermal expansion coefficient α_2) ($\alpha_1 > \alpha_3 > \alpha_2$), and is interposed therebetween, are laminated to form a thermal deformation member for an electron tube 1 or a thermal deformation member for electric control. The intermediary member 4, without adversely affecting strength or long term reliability of the thermal deformation member, contributes to manufacturing cost reduction and improvement of workability. In a color picture tube, the above described thermal deformation member for an electron tube is employed in a thermal deformation portion of a frame holder which one edge is solidly stuck to a panel and the other edge thereof is solidly stuck to a mask frame of a shadow mask. In an overcurrent protection, the above described thermal deformation member for electric current control is employed in a thermal deformation portion which opens a contact point.

Figure : None