

ABSTRACT**SHADOW MASK FOR COLOR PICTURE TUBE**

A shadow mask for a color picture tube that is made of an iron-base alloy material containing nickel and has a low coefficient of thermal expansion. The iron-base alloy material has a 0.2% proof stress of from 220 to 300 N/mm². The grain size measured in conformity to JIS G0551 is not more than 7.5. The degree of texture in each plane measured by X-ray diffraction method is not more than 20%. The difference between the degree of texture in each plane and that in any other plane is not more than 20%. The shadow mask is produced by press forming without undergoing annealing before the press forming.

Figure 1