COLOR PICTURE TUBE PANELS

Requirements

1. Shape and Screen Size
2. Strength
   a. Pressure
   b. Impact
3. Processibility
4. X-ray Inspection

Design Criteria

A. Screen Area
B. Overall Height
C. Alignment Pads

Inspection

A. By gauge where ever possible
   1. Certain gauges registered with JEDEC for panel and funnel
   2. For panel method of calculating screen area and necessary
genue is registered.
B. Critical Items
   1. Inside Contour
      a. Necessary for "Q" spacing
      b. Measured by Cordax, sweep, gauge or discrete multi head
gauge.
   2. Center Face Thickness
      a. Necessary for strength, X-ray absorption
      b. Measured with Branson Ultra Sonic or mechanical gauge.
   3. Periphery
      a. Required for match to funnel for frit sealing.
      b. Measured with multi point gauge
   4. Seal edge width minimum
      a. Required for adequate seal area and X-ray absorption
   5. Mold match dimensions
      a. Required for implosion protection hardware.
      b. Caliper gauge
   6. Outside Contour
      a. Required for safety window fit or fit to decorative mask
         in receivers which do not use types with laminated safety
         window.
      b. Measured with contour templates for radius of curvature
         and special contour gauge for peripheral contour.
   7. Minimum screen dimensions
      a. Required to meet minimum published screen area.
      b. Measured with special JEDEC type gauge.

8. Stud Radius
   a. Required for mask and frame fit.
   b. Measured with special radius gauge.

9. Overall Height
DETAIL SCREEN DIMENSION GAUGE

Specified for control purposes

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