ELECTRONIC INDUSTRIES ASSOCIATION

92-18

August 5, 1992

Electron Tubes - Registration Actions

Item	Category	Rel. #	Description
A66ADT16X401 A68AEG20X301 A68AGA20X401 A68AGA20X101	2	7177	Referral Registrations

This is the fifth mailing for 1992. The others were dated: March 16, June 4, June 12 and June 22.

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ELECTRONIC INDUSTRIES ASSOCIATION

Announcement

of

Electron Device Type Registration

Release No. 7177

August 5, 1992

The Electronics Industries Association announces the registration of the following electron tube designations:

A66ADT16X401
A68AEG20X301
A68AGA20X401
A68AGA20X101

by referral. See the attached data sheets for information on how these types relate to other EIA registered tubes. The sponsor is:

RCA/Thomson

Lancaster, PA

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RCA

Color Picture Tube

A66ADT16X401

66 cm (26V) 110° COTY-FS Precision In-Line Color Picture Tube Assembly

- **Yoke and Neck Components Factory Adjusted for Operation in a –120 mG Vertical Field**
- **COTY-FS – Full Square – Straight Sides and Square Corners**
- **Saddle/Toroidal Yoke – Lower Deflection Power Fully Pincushion Corrected**
- **XL Bipotential Precision In-Line Gun – Optimized Beam-Forming Region for Excellent Focus Uniformity and Good Resolution**
- **Standard 29 mm Neck Diameter – Proven Reliability**
- **Excellent Convergence and Register Performance**
- **Other Features –**
  - **Low Transmittance Faceplate**
  - **Matrix Line Screen**
  - **Internal Magnetic Shield**
  - **Super-Arch Mask**
  - **Soft-Arc Technology**
  - **Integral Mounting Lugs**

RCA A66ADT16X401 is a 66 cm (26V) 110° COTY-FS Precision In-Line Color Picture Tube Assembly. The yoke provides full correction for pincushion distortion. All neck components are assembled on the tube and factory adjusted for optimum performance in a –120 mG vertical field. The COTY-FS features screen edges that are straight and form square corners – a true rectangle.

The bipotential precision in-line electron gun features an XL (expanded diameter lens). In this feature, an expanded lens field encompasses all three beams. This expanded field, when combined with the fields from the individual apertures, produces a superior lens for focus performance with less aberrations than in a standard gun. Only the neck diameter, not the beam spacing, limits the focusing ability. Convergence performance has been improved by reducing the beam spacing.

For picture tube and deflection yoke data, refer to the A66ADT16X01 data bulletin, except for the following:

Typical Design Values (for anode voltage of 25 kV)

Raster Centering Displacement Measured at Center of Screen:
Horizontal ..... 3.5 ± 5.0 mm

Formerly Developmental Type RCA J20771

Printed in U.S.A./6-92
A68ADT16X401

RCA

Color Picture Tube

A68AEG20X301

68 cm (27V) 110° VHP Precision In-Line Color Picture Tube Assembly

- **Yoke and Neck Components Factory Adjusted for Operation In a +150 mG Vertical Field**
- **New Nearly Flat Aspherical Faceplate Shape**
- **FS – Full Square – Straight Sides and Square Corners**
- **Saddle/Toroidal Yoke – N/S Pincushion Corrected**
- **XL Multi-Element Focus Precision In-Line Gun – Optimized Beam-Forming Region for Excellent Focus Uniformity and Good Resolution**
- **Standard 29 mm Neck Diameter – Proven Reliability**
- **Excellent Convergence and Register Performance**
- **Other Features –**
  - **Low Transmittance Faceplate**
  - **Matrix Line Screen**
  - **Internal Magnetic Shield**
  - **Super-Arch Mask**
  - **Soft-Arc Technology**
  - **Integral Mounting Lugs**

RCA A68AEG20X301 is a 68 cm (27V) 110° VHP Precision In-Line Color Picture Tube Assembly featuring a nearly flat aspherical faceplate contour and a multi-element focus electron gun that are optimized for Very High Performance (VHP). The yoke provides correction for N/S pincushion distortion. All neck components are assembled on the tube and factory adjusted for optimum performance in a +150 mG vertical field. The FS screen edges are straight and form square corners – a true rectangle.

The multi-element focus precision in-line electron gun features an expanded diameter lens (XL) and increased beam spacing. The expanded lens field encompasses all three beams and when combined with the fields from the individual apertures and the increased beam spacing, it produces a superior lens for focus performance with less aberrations than a standard gun.

For picture tube and deflection yoke data, refer to the A68AEG20X01 data bulletin, except for the following:

Typical Design Values (for anode voltage of 27 kV)

Raster Centering Displacement Measured at Center of Screen:
Horizontal ..... 2.0 ± 5.0 mm

Formerly Developmental Type RCA J20794

Printed in U.S.A./5-92
A68AEG20X301

RCA

Color Picture Tube

A68AGA20X401

68 cm (27V) 110° VHP Precision In-Line Color Picture Tube Assembly

- **Yoke and Neck Components Factory Adjusted for Operation In a –120 mG Vertical Field**
- **Optimized for 625 Line Operation**
- **New Nearly Flat Aspherical Faceplate Shape**
- **FS – Full Square – Straight Sides and Square Corners**
- **Saddle/Toroidal Yoke – N/S Pincushion Corrected**
- **XL Multi-Element Focus Precision In-Line Gun – Optimized Beam-Forming Region for Excellent Focus Uniformity and Good Resolution**
- **Standard 29 mm Neck Diameter – Proven Reliability**
- **Excellent Convergence and Register Performance**
- **Other Features –**
  - **Low Transmittance Faceplate**
  - **Matrix Line Screen**
  - **Internal Magnetic Shield**
  - **Super-Arch Mask**
  - **Soft-Arc Technology**
  - **Integral Mounting Lugs**

RCA A68AGA20X401 is a 68 cm (27V) 110° VHP Precision In-Line Color Picture Tube Assembly featuring a nearly flat aspherical faceplate contour and a multi-element focus electron gun that are optimized for Very High Performance (VHP). The yoke provides correction for N/S pincushion distortion. All neck components are assembled on the tube and factory adjusted for optimum performance in a –120 mG vertical field. This tube is also designed for 625 line operation. The FS screen edges are straight and form square corners – a true rectangle.

The multi-element focus precision in-line electron gun features an expanded diameter lens (XL) and increased beam spacing. The expanded lens field encompasses all three beams and when combined with the fields from the individual apertures and the increased beam spacing, it produces a superior lens for focus performance with less aberrations than a standard gun.

For picture tube and deflection yoke data, refer to the A68AEG20X01 data bulletin, except for the following:

Typical Design Values (for anode voltage of 27 kV)

Raster Centering Displacement Measured at Center of Screen:
Horizontal ..... 3.7 ± 5.0 mm

Formerly Developmental Type RCA J20801

Printed in U.S.A./5-92
A68AGA20X401

RCA

Color Picture Tube

A68AGA20X101

68 cm (27V) 110° VHP Precision In-Line Color Picture Tube Assembly

- **Yoke and Neck Components Factory Adjusted for Operation in a +330 mG Vertical Field**
- **Optimized for 625 Line Operation**
- **New Nearly Flat Aspherical Faceplate Shape**
- **FS – Full Square – Straight Sides and Square Corners**
- **Saddle/Toroidal Yoke – N/S Pincushion Corrected**
- **XL Multi-Element Focus Precision In-Line Gun – Optimized Beam-Forming Region for Excellent Focus Uniformity and Good Resolution**
- **Standard 29 mm Neck Diameter – Proven Reliability**
- **Excellent Convergence and Register Performance**
- **Other Features –**
  - **Low Transmittance Faceplate**
  - **Matrix Line Screen**
  - **Internal Magnetic Shield**
  - **Super-Arch Mask**
  - **Soft-Arc Technology**
  - **Integral Mounting Lugs**

RCA A68AGA20X101 is a 68 cm (27V) 110° VHP Precision In-Line Color Picture Tube Assembly featuring a nearly flat aspherical faceplate contour and a multi-element focus electron gun that are optimized for Very High Performance (VHP). The yoke provides correction for N/S pincushion distortion. All neck components are assembled on the tube and factory adjusted for optimum performance in a +330 mG vertical field. This tube is also designed for 625 line operation. The FS screen edges are straight and form square corners – a true rectangle.

The multi-element focus precision in-line electron gun features an expanded diameter lens (XL) and increased beam spacing. The expanded lens field encompasses all three beams and when combined with the fields from the individual apertures and the increased beam spacing, it produces a superior lens for focus performance with less aberrations than a standard gun.

For picture tube and deflection yoke data, refer to the A68AEG20X01 data bulletin, except for the following:

Typical Design Values (for anode voltage of 27 kV)

Raster Centering Displacement Measured at Center of Screen:
Horizontal ..... 1.0 ± 5.0 mm

Formerly Developmental
Type RCA J20814

Printed in U.S.A./7-92
A68AGA20X101