

28 (X) + 28 (Y) Crossed Wire Anode, 5 Inch Diameter, 12-Stage, Bialkali Photocathode, Head-On

GENERAL

| Parameter | | Description/Value | Unit |
|--------------------------------|------------------------|--------------------|---------|
| Spectral Response | | 300 to 650 | nm |
| Wavelength of Maximum Response | | 420 | nm |
| Photocathode | Material | Bialkali | — |
| | Minimum Effective Area | 100 | mm dia. |
| Window | Material | Borosilicate glass | — |
| | Shape | Plano-plano | — |
| Dynode | Structure | Proximity mesh | — |
| | Number of Stages | 12 | — |
| Anode | Number of Wires | 28 (X) +28 (Y) | — |

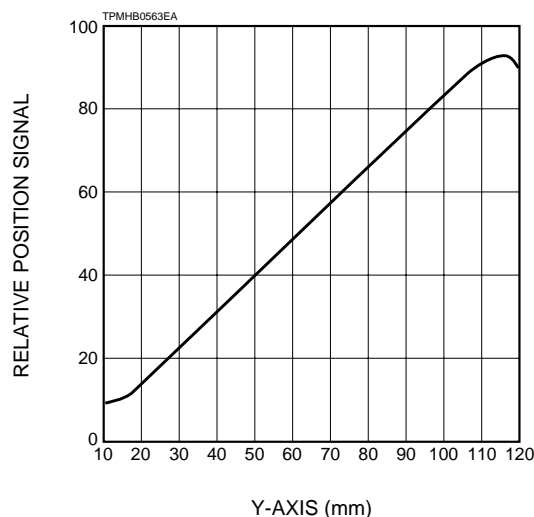
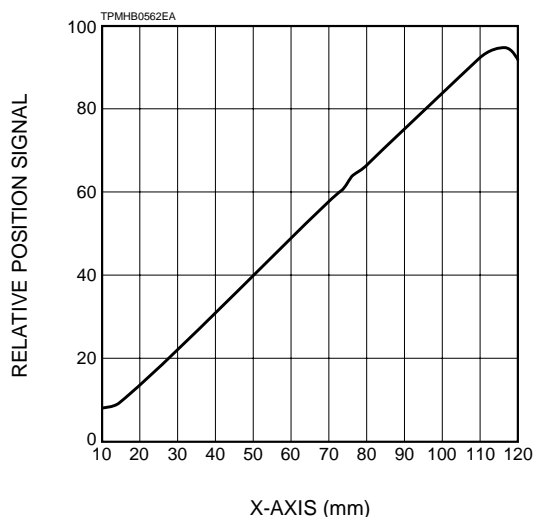
MAXIMUM RATINGS (Absolute Maximum Values)

| Parameter | | Value | Unit |
|---------------------|---------------------------|------------|------|
| Supply Voltage | Between Anode and Cathode | 1300 | Vdc |
| Ambient Temperature | | -80 to +50 | °C |

CHARACTERISTICS (at 25°C)

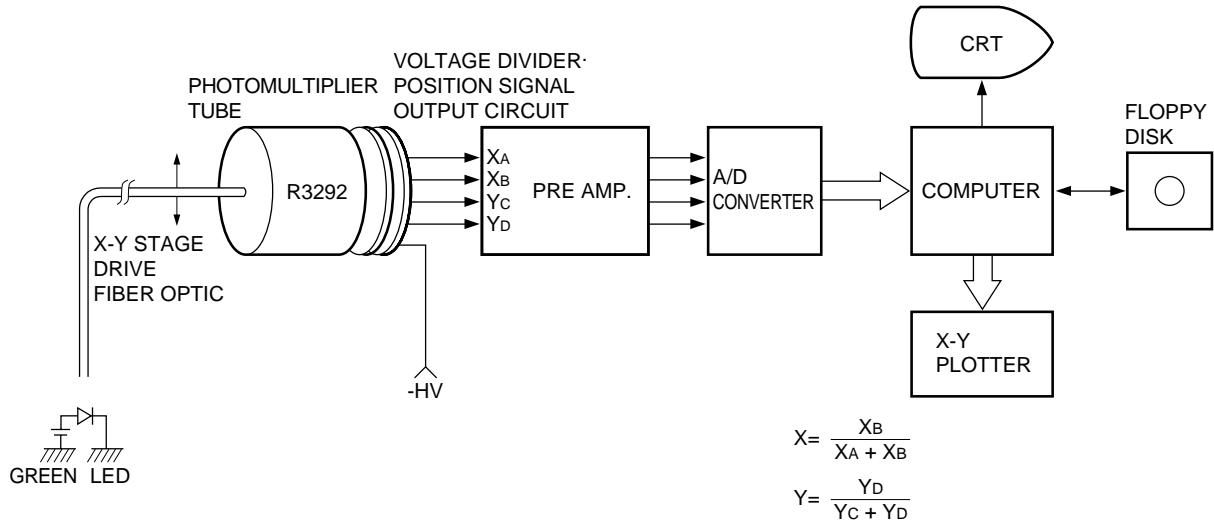
| Parameter | | Min. | Typ. | Max. | Unit |
|--|-----------------------------|------|--------------------|------|---------|
| Cathode Sensitivity | Luminous (2856K) | 50 | 80 | — | μA/lm |
| | Radiant at 420nm | — | 77 | — | mA/W |
| | Blue (CS 5-58 filter) | — | 9.0 | — | μA/lm-b |
| | Quantum Efficiency at 420nm | — | 23 | — | % |
| Anode Sensitivity | Luminous (2856K) | 5 | 10 | — | A/lm |
| | Radiant at 420nm | — | 7.7×10^3 | — | A/W |
| Gain | | — | 1.25×10^5 | — | — |
| Anode Dark Current (after 30 min. storage in darkness) | | — | 40 | 150 | nA |

Figure 1: Position Signal Linearity



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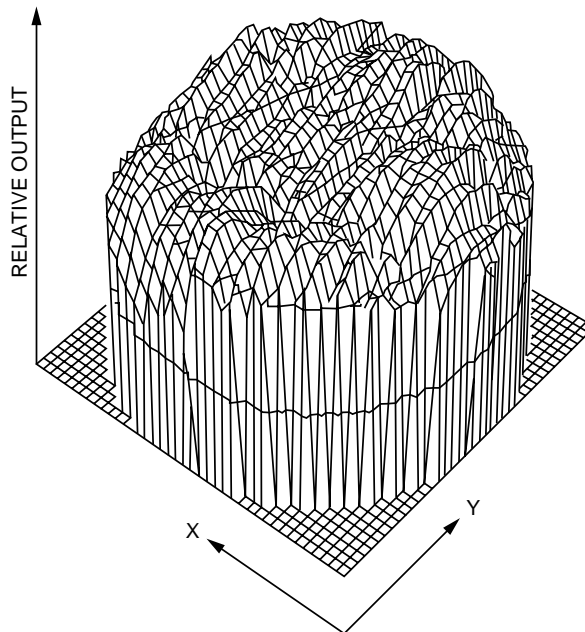
Figure 2: Block Diagram of Position Signal Linearity Measurement



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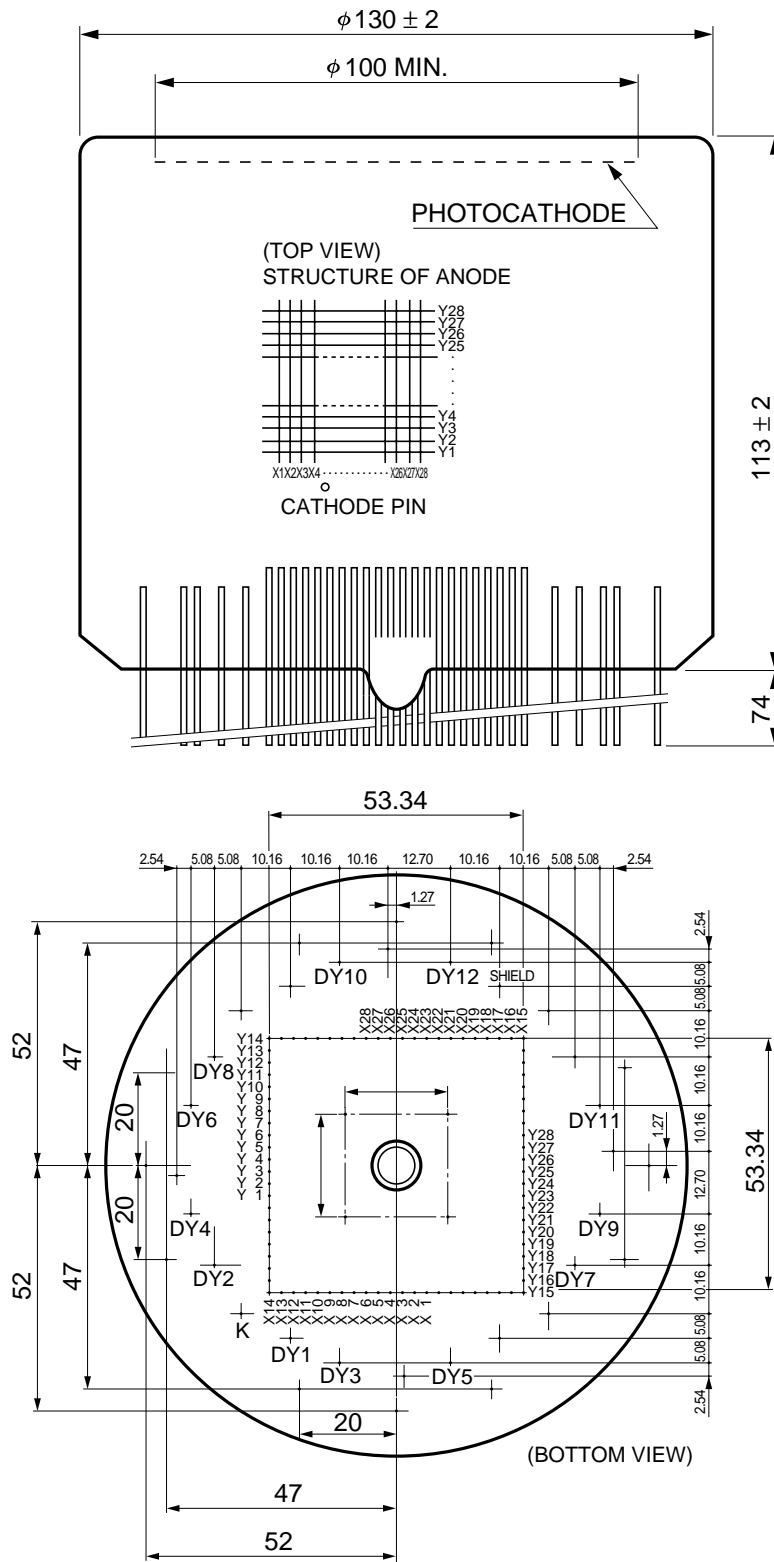
Figure 3: Uniformity Characteristics

SPOT DIA. : $\phi 1\text{mm}$
 SPOT INTERVAL: 2.5mm
 WIDTH : $\phi 100\text{mm}$
 WAVELENGTH : 420nm



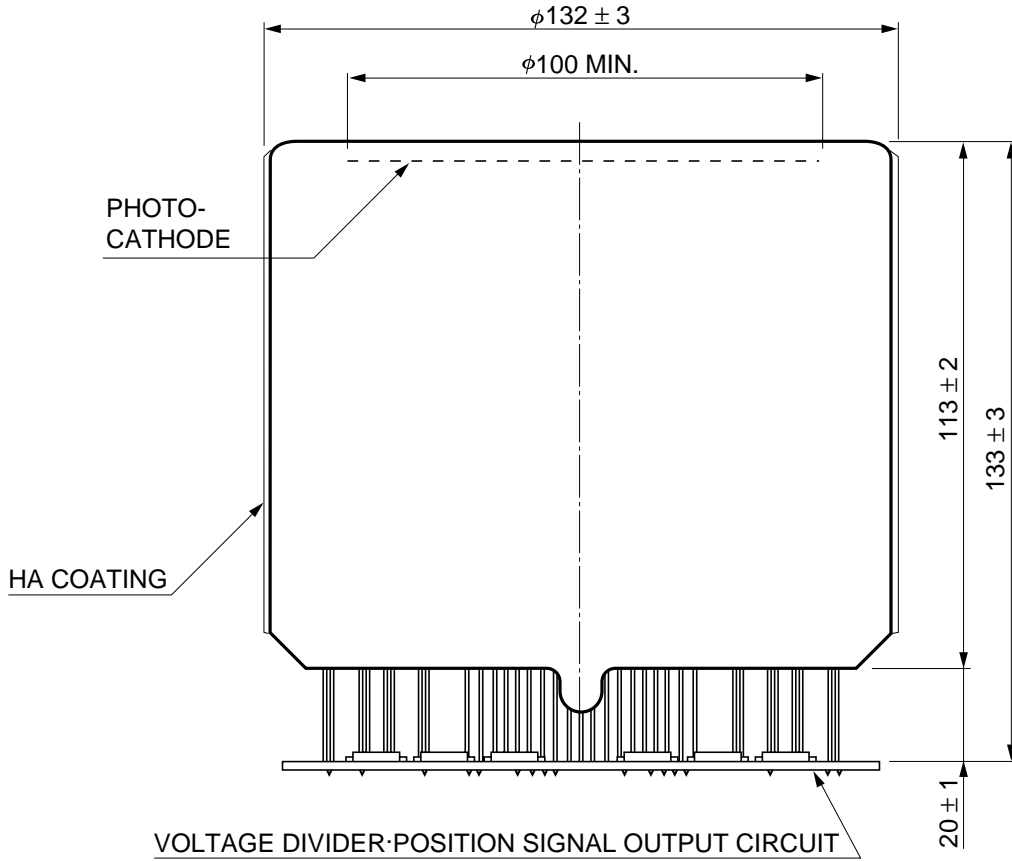
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Figure 4: R3292 Dimensional Outline (Unit: mm)

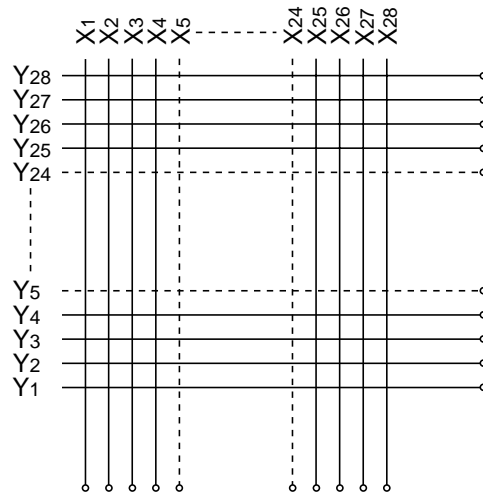
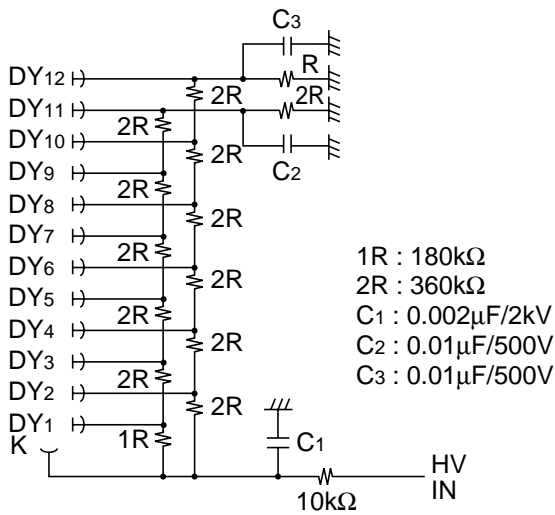


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Figure 5: R3292-01 Dimensional Outline and Voltage Divider Circuit (Unit: mm)

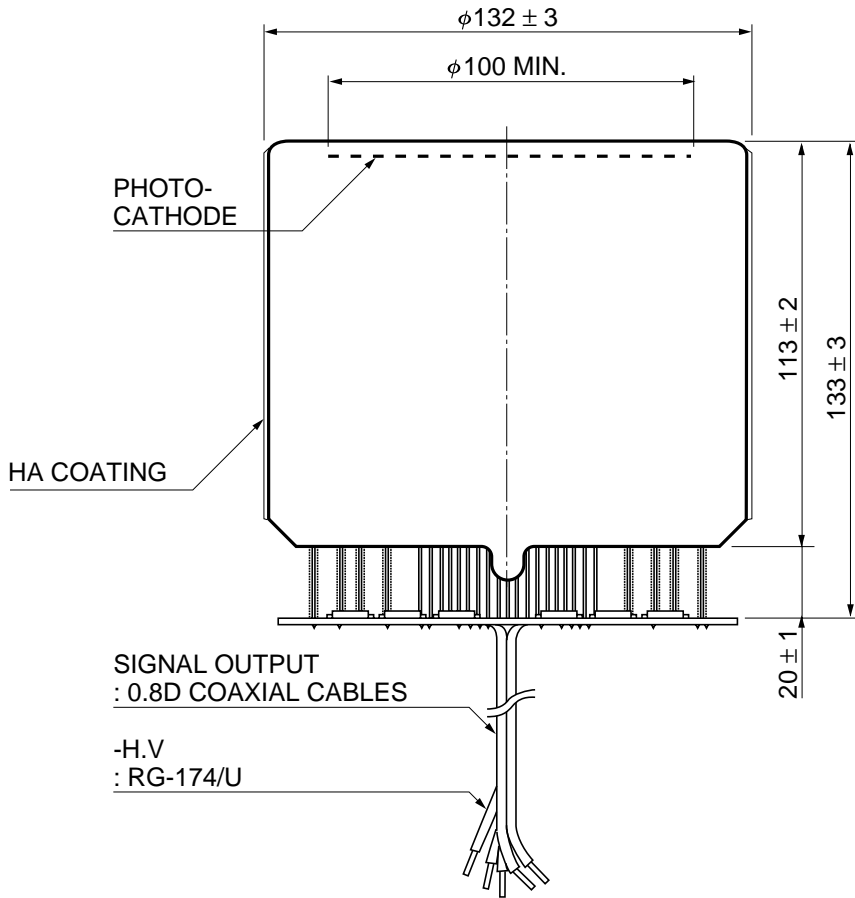


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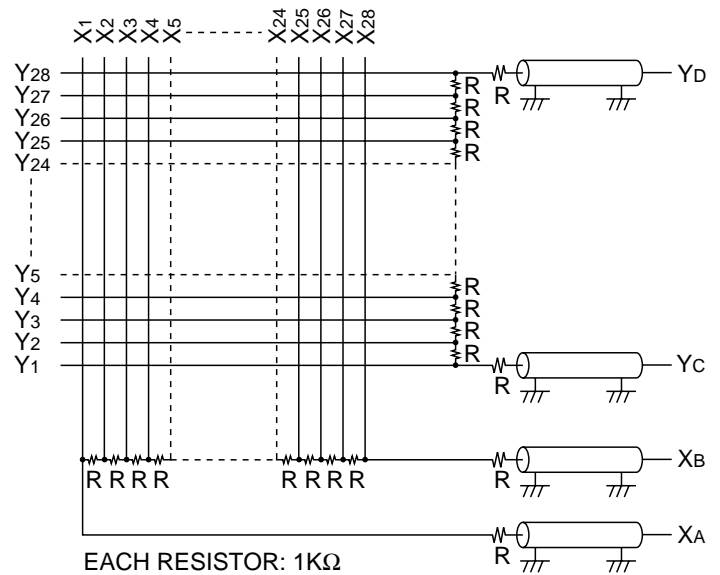
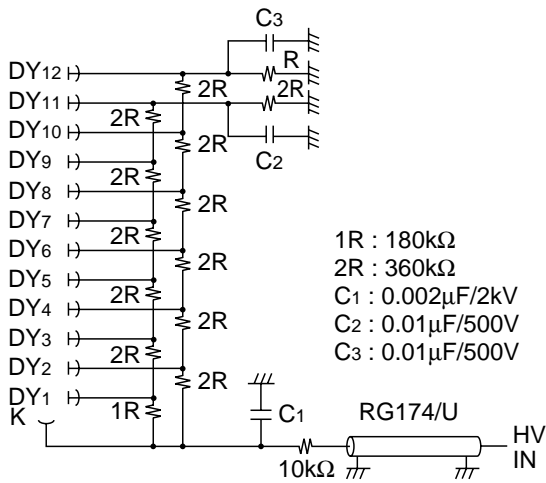


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Figure 6: R3292-02 Dimensional Outline, Voltage Divider Circuit and Position Signal Output Circuit (Unit: mm)



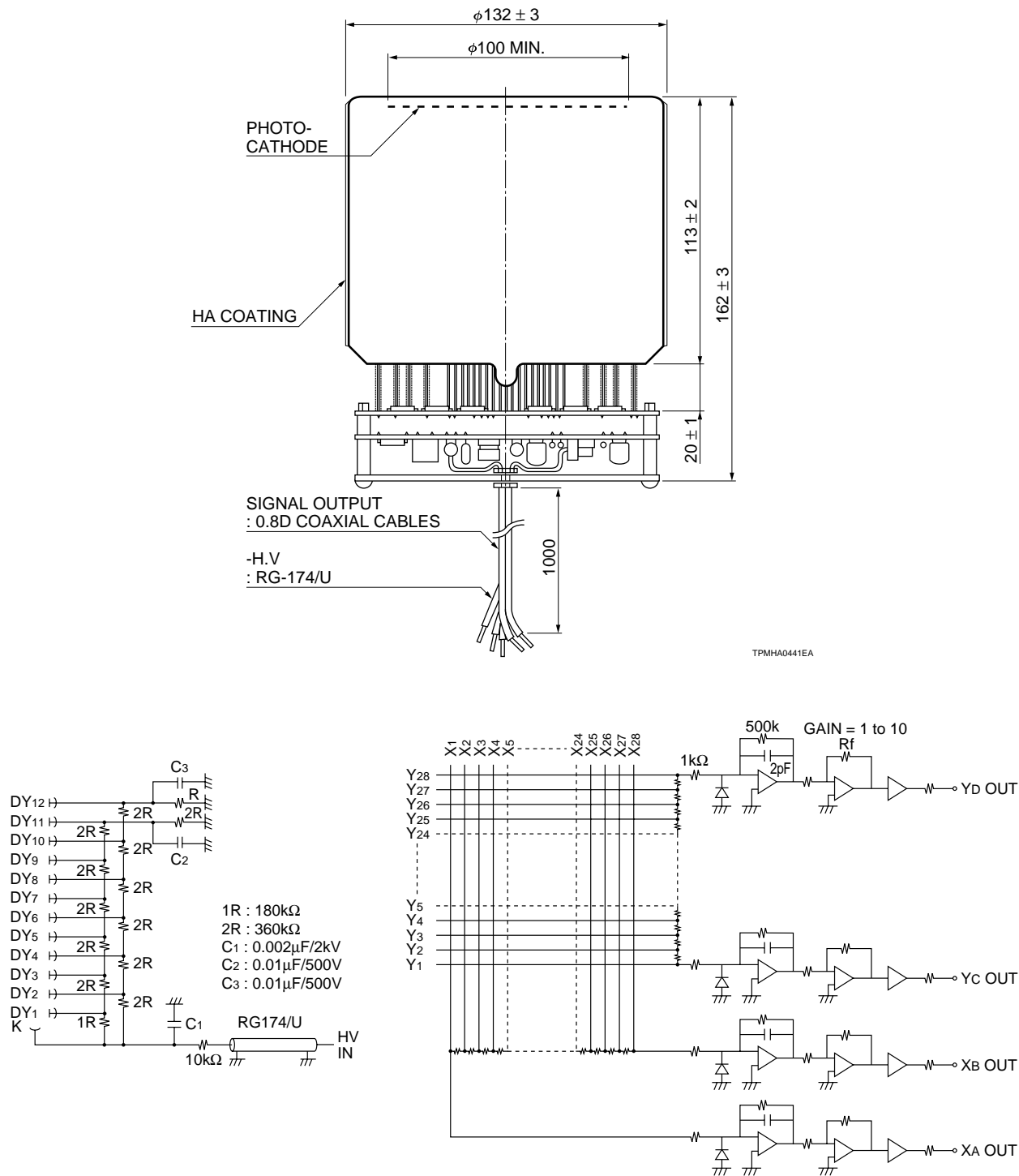
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Figure 7: R3292-05 Dimensional Outline, Voltage Divider Circuit, Position Signal Output Circuit and Preamplifier (Unit: mm)



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