

Amperex[®]
TOMORROW'S THINKING IN TODAY'S PRODUCTS[®]

Amperex[®]
ELECTRONIC CORPORATION

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TUBE TYPES
XQ1020L
XQ1020R
XQ1020G
XQ1020B
PLUMBICON*

The Amperex XQ1020 Plumbicon[®] is a sensitive high definition pick-up tube with a photoconductive target and low velocity stabilization. The XQ1020 employs a separate mesh construction.

The XQ1020 series of camera tubes are intended for highest quality broadcast cameras.

GENERAL CHARACTERISTICS

MECHANICAL

Focusing Method (1)	magnetic
Deflection Method (1)	magnetic
Dimensions	see outline drawing
Base	see outline drawing
Mounting Position	any
Weight	3.0 oz.
Accessories	
Socket	type 56021
Focusing and Deflection Coil Assembly for XQ1020	type AT1132
for XQ1020L, R, G, B	type AT1112 or AT1113

ELECTRICAL

Heating	indirectly by AC or DC; parallel supply
Heater Voltage	6.3 volts \pm 5%
Heater Current	~300 ma
Capacitance	
Signal Electrode to All Other Electrodes	3 to 6 pf (5)
Grid No. 1 Voltage for Cut-off at $V_{g2} = 300$ V	-30 to -100 volts (7, 8)
Blanking Voltage Peak to Peak on Grid No. 1 on Cathode	70 volts max. 25 volts min.
Grid No. 2 Current at Normally required beam currents	2 ma
Dark Current at $E_{as} = 45$ V	0.003 μ A

OPTICAL

Dimensions of Quality Rectangle on Photoconductive Layer (aspect ratio 3:4)	0.5 in. x 0.67 in. (6)
Orientation of Image on Photoconductive Layer	see note 2
Sensitivity at Color Temperature of Illumination = 2850° K	
type: XQ1020L	275 μ A/lumen
XQ1020R	60 μ A/lumen (3)
XQ1020G	125 μ A/lumen (3)
XQ1020B	32 μ A/lumen (3)
Total Thickness of Faceplate Glass	0.28 \pm 0.008 in.
Index of Refraction of Faceplate	1.5

* The XQ1020L is intended for black and white high quality cameras. The XQ1020R, G, B are intended for color cameras in the red, green and blue channels respectively.

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