

RTC XP 2008/UB  
General purpose tube suitable for flying spot scanning,  
spectrometry and scintillation counting

Diameter: 39mm (Nominal)  
Surface: Caesium antimony  
Av Anode Sensitivity:-  
400 A/lm @ 1.8Kv  
Cathode Sensitivity 150 uA/lm  
Number of stages: 10  
Rise Time: 3.5ns  
Max Mean Anode Current: 200uA  
Max Peak Anode Current: 200mA  
Dynode Material: Copper Beryllium  
Available commercially as: XP2071B

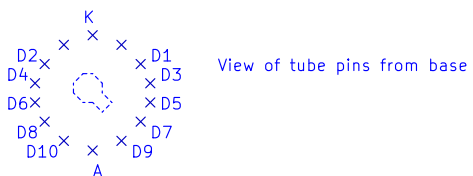
#### Notes:-

Above schematic is a complete new design for a transistor  
voltage divider, that allows gain setting via voltage and  
features reasonable linearity and low power consumption

10 Stage divider @ 1800V Max – 200V giving 160V per stage

Q1 thru Q9, BSS192, P Channel MOSFET 240V

High Voltage Diode, BYX10GP-E3/54, Vrrm 1.6KV, Vf 1.6V, Ifav 360ma



View of tube pins from base

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File: XP2008TDiv.sch

Sheet: /

Title: XP2008/UB Transistor Divider HV Bias Circuit

Size: A4

Date: 29 Jan 2013

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KiCad E.D.A.

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