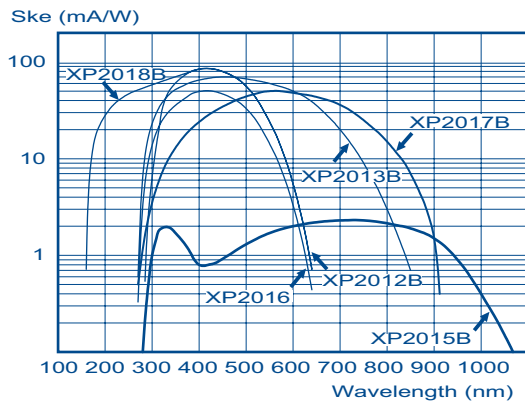


# 39 mm (1 1/2") tubes

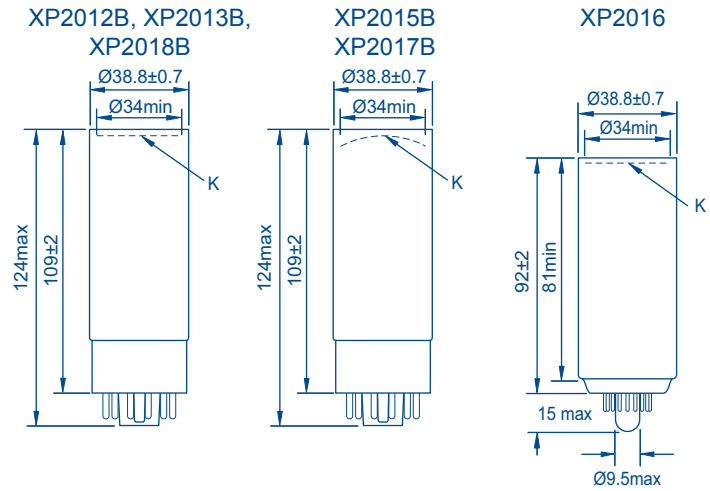
	XP2012B	XP2013B	XP2015B	XP2016	XP2017B	XP2018B	
<b>Key features</b>	---	red-sensitive	infrared-sensitive	high-temperature	extended-red-sensitive	UV-sensitive	
<b>Dynode structure / number of stages</b>	focused/10	focused/10	focused/10	focused/10	focused/10	focused/10	
<b>Cathode luminous sensitivity (μA/lm)</b>	typ. 85	200	20	40	210	85	
<b>Cathode blue sensitivity (μA/lmF)</b>	min 9	---	---	5	---	9	
	typ. 11	---	---	7	---	11	
<b>Cathode radiant sensitivity (mA/W)</b>	typ. at (nm)	85 mA/W	20 mA/W	0,12 mA/W	50 mA/W	6,5 mA/W	85 mA/W
		290 420 650	270 700 850	270 1050 1050	270 400 650	270 860 950	160 420 650
<b>Gain</b>	typ. 6.5x10 <sup>5</sup>	3.0x10 <sup>5</sup>	5.0x10 <sup>5</sup>	2.1x10 <sup>5</sup>	2.9x10 <sup>5</sup>	8x10 <sup>5</sup>	
<b>Supply voltage</b>	typ. 1250	1250	1200	1300	1200	1350	
	min. (V) 1050	1000	1000	1000	1000	1150	
	max. (V) 1450	1600	1500	1600	1500	1600	
<b>Anode dark current</b>	typ. (nA) 1	2	2000	1	2	5	
	max. (nA) 10	50	10000	10	20	20	
<b>Max. anode pulse current for linearity 2% (mA)</b>	200	200	200	200	200	200	
<b>Time response</b>	rise (ns) 2.5	2.5	3	3.5	2.5	2.5	
	FWHM (ns) 6	6	4	7	6	6	
<b>PHR (%)</b>	7.5	---	---	---	---	7.5	
<b>Maximum ratings</b>	supply voltage (V) 1800	1800	1600	1700	1800	1800	
	gain 1x10 <sup>7</sup>	5x10 <sup>6</sup>	5x10 <sup>6</sup>	2x10 <sup>6</sup>	5x10 <sup>6</sup>	1x10 <sup>7</sup>	
<b>Accessories</b>	Voltage divider VD200K	VD200K	VD200K	---	VD200K	VD200K	
	Socket FE1012	FE1012	FE1012	---	FE1012	FE1012	
	Mu-metal shields MS170	MS170	MS170	MS170	MS170	MS170	

PHR: for radiation source <sup>137</sup>Cs, NaI Tl scintillator, Ø 32 mm, h25 mm ; Ø 51mm, h 51 mm for XP2012B.  
 Maximum ratings : maximum average anode current 0.02 mA for XP2015B;  
 XP2013B, minimum radiant sensitivity at 700nm: 10mA/W. XP2017B minimum radiant sensitivity at 860nm: 1.5mA/W.

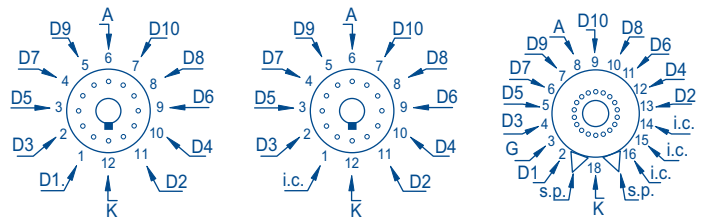
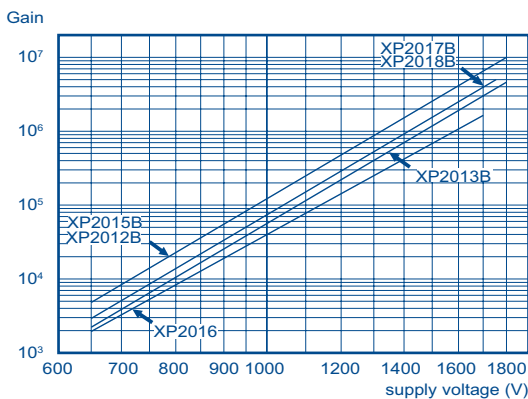
## Typical spectral characteristics



## Dimensions and pinning



## Typical gain curves



## Voltage dividers

Tube	A divider type voltage ratios (for maximum gain)								
	K	G/D1	D2	D3	D4	...	Dn	A	
XP2012B, XP2013B, XP2015B, XP2016B, XP2017B, XP2018B	2	1	1	1	1	...	1	1	