

Photomultiplier

XP2262

12-stage
51mm (2"), Round tube

Application

✓ Energy physics

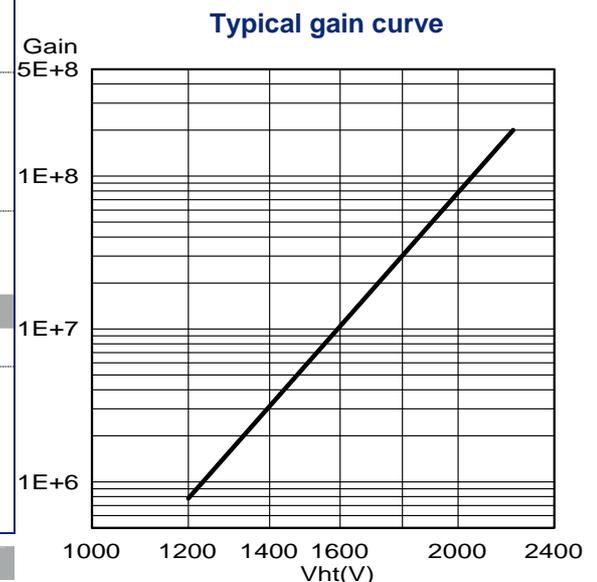
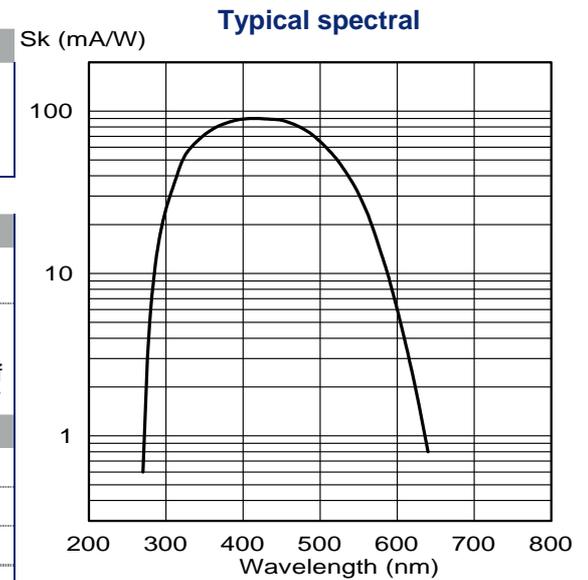
Feature

✓ Fast



Description	
Window material	Lime glass
Photocathode	Bi-alkali
Refr. Index at 420nm	1.54
Multipier structure	Linear focused

Photocathode characteristics	Min	Typ	Max	Unit
Spectral range:		290-650		nm
Maximum sensitivity at		420		nm
Sensitivity:				
Luminous		70		μA/lm
Blue *	9	11.2		μA/lmf
Radiant, at 420nm		90		mA/W
Characteristics with voltage divider A	Min	Typ	Max	Unit
Gain slope (vs supp. Volt., log/log)		9		
For a gain of		3×10^7		V
Supply voltage *	1500	1800	2400	V
Anode dark current *		10		nA
Background noise *		1000	6000	cps
Single electron spectrum resolution		70		%
Peak to valley ratio		3		
Mean anode sensitivity deviation:				
Long term (16h)		1		%
After change of count rate		1		%
Vs temperature between 0 and +40°C at 420nm		-0.2		%/K
Gain halved for a magnetic field of:				
Perpendicular to axis "n"		0.2		mT
Parallel to axis "n"		0.1		mT
For a supply voltage of : 1900V	Min	Typ	Max	Unit
Linearity (2%) of anode current up to:		100		mA
Anode pulse:				
Rise time		2.3		ns
Duration at half height		3.7		ns
Transit Time		31		Ns
Transit time Difference between center of PK and 18 mm from it		0.7		ns



Recommended Voltage Divider

Type A for maximum gain

K D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12 A
 4 1.1 0.9 1 1 1 1 1 1 1 1 1 1 (total : 16)

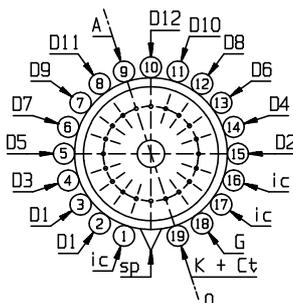
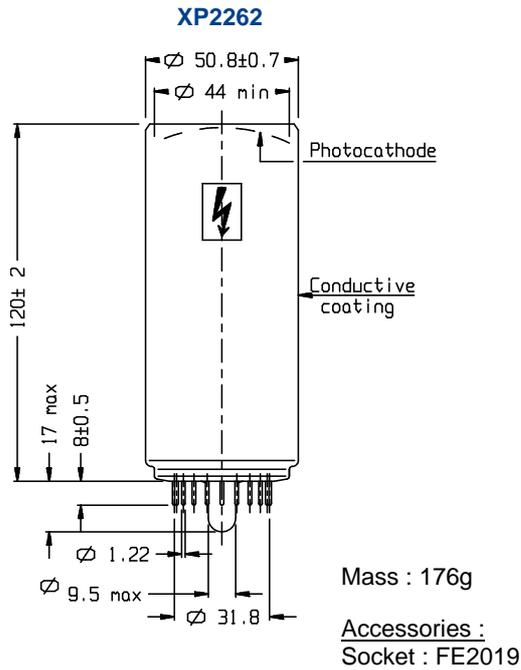
* characteristic measured and mentioned on the test ticket of each tube

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Outline (dimensions in mm)

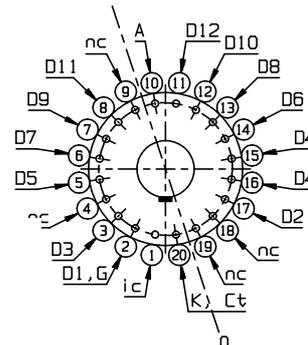
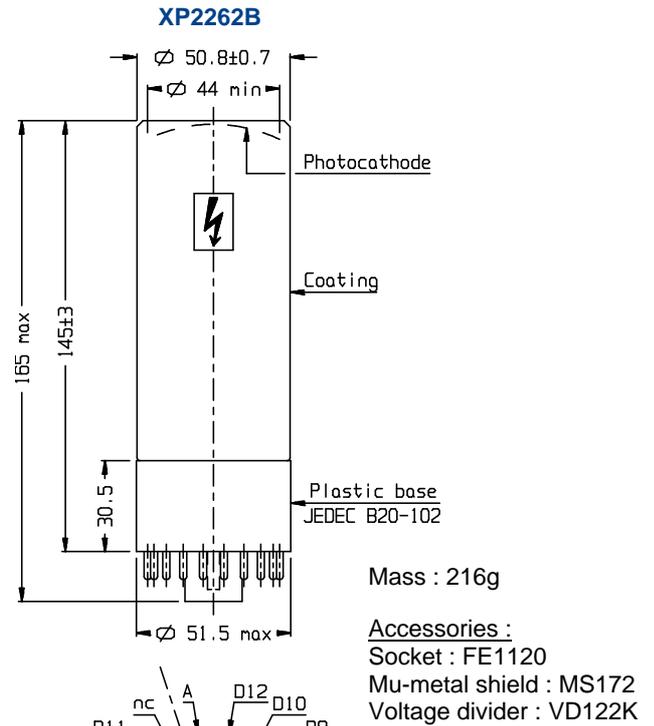


K: cathode
sp: short pin

Dn: dynode
ic: internal connection

A: anode
nc: not connected

nc: not connected
Ct: coating



Limiting values	Min	Max	Unit
Anode Luminous sensitivity		2×10^8	
Supply voltage		2500	V
Continuous anode current		0.2	mA
Voltage between :			
D1 and photocathode :	300	800	V
Consecutive dynode :		400	V
Anode and D12:	80	600	V
Ambient temperature :			
Short operation (<30 mn) :	-30	+80	°C
Continuous operation & storage :	-30	+50	°C

Variants

XP2262

Finishing

B with plastic base JEDEC B20-102

F with flying leads $\varnothing 0.5$

FB with flying leads and plastic base

Also, other variants can be made. Please, contact us to discuss any specific product requirements.

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