Filament Ratings (See note4 and 5)							
	520B-V2	520B-V3	520B-V4 = 5.0V with Balanced Heater. (2x 2.5V)				
Filament Voltage (AC or DC)	= 6.5 Volt	= 5.0 Volt					
Tolerance on filament voltage	5%	5%	5%				
Filament Current	~ 1.5 Amp.	~ 2.0 Amp.	~2.0 Amp.				

Maximum Conditions
(Not possible simultaneously)
See also Note4.

Plate Voltage	550Volt		
Plate Current	200mA		
Tube Output Power	24 Watt		
Highest possible Grid to ground resistor, Single Ended.	150kOhm		
Highest possible Grid to ground resistor, Push-Pull.	50kOhm		

Typical application Recommended operating point See also Note3.

All bias methods are possible

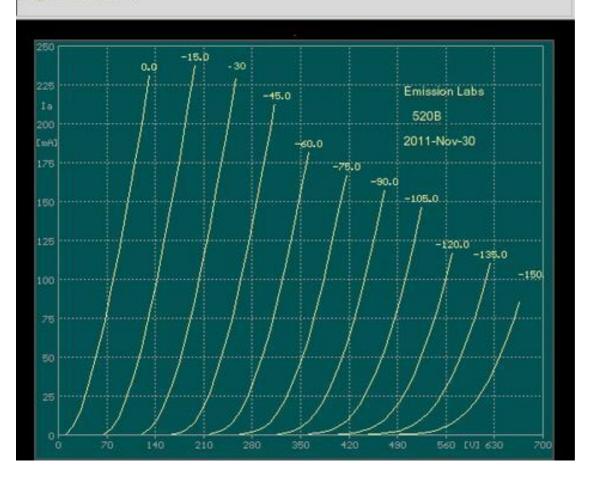
Plate Voltage	458V			
Plate Dissipation	55Watt			
Plate Current	120mA			
Grid DC Voltage	-91Volt			
Plate Impedance (Rp)	520Ohms			
Unloaded Gain (mu)	6.7			
Effective Gain	5.6			
Tube Power Output in Class A	21.6Watt			
Load Impedance (Ra)	2600 Ohm			
Grid resistor to ground	Max. 100kOhm			

520B Single Ended operating points (This is just a selection from various points of the curve chart)

Plate Voltage (Against Heater)	Grid Voltage (Against Heater)	Plate Current (mA)	Plate Rp (Ohm)	Load (Ohm)	Plate Dissi- pation (Watt)	Power Output (Watt)	2nd harm. (dB)	Recommended Lundahl Transformer
400	-82	80	530	2800	32	13.2	30	LL1679-120mA
400	-81	100	530	2000	40	15.6	25	LL1679-120mA
400	-80	120	510	2000	48	18.7	25	LL1679-120mA
				1.51				
450	-95	80	580	3300	36	13.0	27	LL1620-100mA
450	-92	100	520	3600	45	14.3	31	LL1620-100mA
450	-91	110	520	3600	50	15.6	31	LL1620-100mA
450	-89	120	520	2600	54	21.5	24	LL1679-120mA
500	-106	90	620	3600	45	16.0	32	LL1620-100mA
500	-104	100	560	3600	50	17.5	32	LL1620-100mA
	-102	110	560	2600	55	24.0	25	LL1679-120mA

Other operating points: For operating points, not given here, you can estimate the parameters by averaging between two rows of this table.

Output Power: Is specified at the tube, so transformer loss must be substracted. This is depending on the transformer choice and quality. Low Loss transformers have larger dimensions.



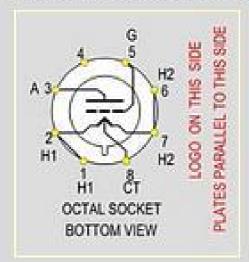
Mechanical Data

UX4 BASE CONNECTIONS (UX4)



Logo on this side Plates parallel to this side

OCTAL BASE CONNECIONS



Pin 1+2: Heater1 Pin 6+7: Heater2

Pin 8: Center Tap (Cathode)

Pin3: Anode (Plate)

Pin5: Grid

Size including Socket (but excluding pins)

> 200 x 68 mm 7.5 x 2.7 Inch

Shipped weight for double box

950 Gram