

Bill of Materials HQ-IV tube output stage for balanced DAC chips				
	Comment	Designator	Description	Quantity
Resistor 1/2-2W Audio Note Tantalum Shinkoh - Tantalum Caddock Amtrans Riken Takman PRP	75R	R8, R9, R23, R24		4
	1K	R-IV1, R-IV2, R-IV3, R-IV4		4
	1.5K	R5, R14, R20, R29	1,5k for tube 12Au7, 470 for Tube 6DJ8	4
	2.2K	R6, R12, R21, R27		4
	47K	R1, R2, R16, R17		4
	100k	R3, R4, R7, R10, R11, R13, R15, R18, R19, R22, R25, R26, R28, R30		14
Resistor 1/4W PRP Dale	3.2K	R31		1
	10K	R33		1
	47K	R32		1
Trimer	100R-200R	VR1, VR2		2
Capacitor Filter	220pF	CF1, CF3, CF4, CF6	Silver Mica, Polystyrene (pf) or better	4
	470pF	CF2, CF5		2
Capacitor fast turn off	22nF (203)	C8		1
	4.7uF/25V	C10		1
Capacitor ouput	0.22uF/400V	C3, C6		2
	1uF/400V	C2, C5	ClarityCap,Duelund,DynamiCap, Jensen, Jupiter,Mundorf	2
	0,1uF/400V	C1, C4		2
Capacitor fast turn off	220uF/25V	C7		1
	680uF/25V	C9		1
Diode J-fest Relay				
	1N4007	D2, D3		2
	2SK170, 2SK117	Q1, Q2		2
	AK5W-K	RL1	Use RElay 6V for 6V Filament Use relay 12V for 12 Filament	1
	uPC1237	U2		1
Tube	6DJ8	V1, V3		2
	12AU7	V2, V4		2
Tube socket	9 Pin -PCB	V1,2,3,4		4
RCA out	L-OUT, R-out	CN1, CN2		1
Tranfomer		0-8V or 0-12V / 2A X 1 0-220-230VAC/80mA X 1		1

Bill of Materials For No. Shunt HV Regualtor- Filament				
	Comment	Designator	Description	Quantity
Resistor 1/4	220R	R13	R1/4W	1
	580R	R4	R1/4W	1
	1K	R1, R10	R1/4W	2
Resistor 2W	3.3R	R3, R6		2
	220K	R8		1
	100R/2W	R7, R12		2
	220K	R9		1
	100K	R11		1
	100K/2W	R2, R5		2
Trimer	1K	VR1	Bourns	1
	5K	VR2	Bourns	1
Capacitor	220pF	C4	No use	0
	0.047/450V	C6		1
	3.3uF/450V	C1	Solen cap or better	1
	1uF/450V	C2	No use	0
	1uF/100V	C5	Wima	1
	10uF/25V	C10	NICHICON-Panasonic-ELNA	1
	100uF/450V	C3	NICHICON-Panasonic	1
	220uF/25V	C7	NICHICON-Panasonic-ELNA	1
	2200uF/25V	C8, C9	NICHICON-Panasonic-ELNA	2
Mosfet Transitor J-fest	LM317 -TO-220	U1		1
	LT1084 -TO-220 or LT1764 -TO-220	U2, U3	Choise LT1084 or LT1764	1
	IRF840	Q1		1
	MJE340	Q2		1
	2SK170 or 2SK117	Q3		1
Zenner	6.2V- zener 1W	D2		1
	75V- zener 1W	D6, D7		2
Diode	1N4007 or BYV26C MUR260 (2A 600V)	D3, D4, D8, D9		4
	1N4007	D1, D5, D10, D11, D13		5
	1N5822/3A	D12, D14, D15, D16		4
	LED- red	LED1		1
Heatsinks	Heatsinks -HS380-ND Or HS350-ND	For IRF 840 and LT1084		2
HED	HV-OUT	J1	HED2B	1
	F-Out	J3	HED3B	1
	AC-HV in	J2	HED3B	1
	AC-LV in	J4	HED2B	1