

VSSA1 Rev C, Bill of Materials, mechanical components not included

+/-45V Power Supply Max.

25.10.2013, Revised 30.10.2013

<u>Ref Name</u>	<u>Qty</u>	<u>Comp/Value</u>	<u>Package</u>	<u>Description</u>
Q1	1	BC550C	TO-92	NPN, 45V
Q2	1	BC560C	TO-92	PNP, 45V
Q3	1	KSA1381E	TO-126	PNP, Fairchild
Q4	1	KSC3503E	TO-126	NPN, Fairchild
Q5	1	2SK1058, ALF08N	TO-3P, -247	MOSFET, Renesas, Semelab
Q6	1	2SJ162, ALF08P	TO-3P, -247	MOSFET, Renesas, Semelab
Q11, Q12	2	J112	TO-92	JFET, 35V, Fairchild, CCS Option (Short Pins 1 and 2 if not used)
C1	1	4.7uF-10uF	Radial	Film or Bipolar, 2.5mm, 5mm, 15 mm LS
C2	1	100pF-220pF	Box	Film or Ceramic (MLCC), 5 mm
C3, C4, C9, C10	2	1uF	Box	Capacitor, Film, 5mm LS, Optional
C5, C6	2	1000uF	Radial	Capacitor, Electrolytic, 50V
C7, C8	2	2200uF	Radial	Capacitor, Electrolytic, 6.3V
C11, C12	2	47 pF	Box	Capacitor, NP0 or Mica, 2.5-5mm LS
C13	1	1uF	Radial	Capacitor, Film, Bypass, 5mm LS
C23, C24	2	0.047uF	Radial	Capacitor, Film, Bypass, 5mm (Zobel)
C15, C16	2	1000uF	Radial	Capacitor, Electrolytic, 50V, Low ESR
C17, C18	2	10uF	Box	Capacitor, Film, 5 or 15mm LS, Optional
D1, D2	2	1N4148	Axial	Diode
D3, D4	2	1N4004/1N4007	Axial	Diode, Optional
Z1, Z2	2	12V	Axial	Protection Diodes, with ALF08P/N only
Z3, Z4	2	12V or 1N4148	Axial	Protection Diodes, with ALF08P/N only
IN	1	HDR-2	Header	Header, or 2 Term. Block, 2.5mm
Vpos, Vneg, GND	3	FASTON	TAB	Tab Conn., or 3 Term. Block, 5mm
OUT	1	FASTON	TAB	Tab Connector
VR1, VR2	2	2K	RA_PREC	Potentiometer, Multi-turn, Vertical
OFF1, OFF2	2	(tbd)	Axial	Resistor, optional w. VR1, VR2
R1	1	1k	Axial	1/4W 1%
R2	1	10k	Axial	1/4W 1%
R3, R4	2	470	Axial	1/4W 1%
R5, R6	2	3K3 - 5K6	Axial	1/4W 1%, CCS Option 15 – 22k if CCS not used
R7, R8	2	100R	Axial	1/4W 1%, Matched or 0.1%
R9, R10	2	10R	Axial	1/4W 1%
R11, R12	2	10R	Axial	1/2W 1%
R13	1	130R	Axial	1/4W 1% (Gate, 2SK1058)
R14	1	100R	Axial	1/4W 1% (Gate, 2SJ162)
R15, R16	2	2K2	Axial	1/4W, 1% Matched or 0.1%
R17, R20	2	20R - 22R	Axial	1/2W~1W, 10-12 mm LS (Zobel)
R18	1	10R	Axial	1/4W 1% (or 0-R jumper)
R19	1	470R	Axial	1/4W 1%, Optional Output Bias adjustment