

ETF.25 Line Stage

Qty	Parts	Description	Mfg	Mfg PN	Vendor	Vendor PN	Cost Ea	Cost Ext	Vendor 2	Vendor 2 PN	Notes
3	C1, C2, C7	Electrolytic cap, 330uF 100V, 18mm dia 7.5mm LS	Nichicon	UPJ2A331MHD6TN	Mouser	647-UPJ2A331MHD6TN	\$ 1.87	\$ 5.61	DigiKey	493-12286-1-ND	Low-Z electrolytic
2	C3, C4	Film cap, 2.2uF 100V/250V, 15/22/27mm LS	Wima	MKP4D042205I00KSSD	Mouser	505-MKP4D042205I00KS	\$ 2.42	\$ 4.84	DigiKey	1928-1544-ND	Polypropylene
2	C5, C6	Film cap, 1uF 100V, 5mm LS	Wima	MKS2D041001K00MSSD	Mouser	505-MKS2D041001K00MS	\$ 0.82	\$ 1.64	DigiKey	399-19338-ND	Any 1uF 100V film cap
2	C8, C9	Electrolytic cap, 470uF 35V, 13mm dia 5mm LS	Nichicon	UKW1V471MPD	Mouser	647-UKW1V471MPD	\$ 1.11	\$ 2.22	DigiKey	493-15513-ND	Audio grade electrolytic, 16V+
1	D1	TVS diode, 1.5KE68A	Littlefuse	1.5KE68A	Mouser	576-1.5KE68A	\$ 0.50	\$ 0.50	DigiKey	1.5KE68ALFCT-ND	Any mfg
4	D2, D3, D4, D5	Zener diode, 18V, BZX55-18, DO35	Vishay	BZX55C18-TAP	Mouser	78-BZX55C18-TAP	\$ 0.18	\$ 0.72	DigiKey	BZX55C18-TAPGICT-ND	Any mfg
2	HS1, HS2	Heatsink	Same Sky	HSE-B20381-035H	Mouser	490-HSE-B20381-035H	\$ 1.74	\$ 3.48	DigiKey	HSE-B20381-035H-ND	Or Wakefield 637-15ABPE
2	J1, J2	RCA jack, dual horizontal	Kobiconn	156-4220-E	Mouser	156-4220-E	\$ 2.04	\$ 4.08	Mouser	156-4218-E	
1	J3	DC Jack 2.5mm	Same Sky	PJ-102BH	Mouser	490-PJ-102BH	\$ 0.63	\$ 0.63	DigiKey	CP-102BH-ND	
2	L1, L2	Common mode inductor, 8111	Bourns	8111-RC	Mouser	542-8111-RC	\$ 9.85	\$ 19.70	DigiKey	M8906-ND	
4	Q1, Q2, Q3, Q4	MOSFET, depletion, TO220	Ixys	IXTP08N100D2	Mouser	747-IXTP08N100D2	\$ 3.68	\$ 14.72	DigiKey	238-IXTP08N100D2-ND	
2	R1, R2	Resistor, 1/2W+, 100k	Vishay	PR02000201003JR500	Mouser	594-5083NW100K0J	\$ 0.37	\$ 0.74	Mouser	603-MFR1WSFTE52-100K	Any type 1/2W or higher is fine
2	R4, R15	Resistor, 1/2W+, 470k	Vishay	PR02000204703JA100	Mouser	594-5083NW470K0JA100	\$ 0.35	\$ 0.70	Mouser	603-MFR1WSFTE52-470K	Any type 1/2W or higher is fine
2	R19, R20	Resistor, 1/2W+, 200 ohm	Vishay	PR02000202000JR500	Mouser	594-5083NW200R0J	\$ 0.37	\$ 0.74	Mouser	603-MFR-12TF52-200R	Any type 1/2W or higher is fine
10	R3, R5, R6, R8, R11, R12, R13, R16, R17, R18	Resistor, 1/4W carbon comp, 1200 ohms	Allen-Bradley	RC07GF121J	Surplus Sales	RC07GF121J	\$ 0.75	\$ 7.50	PCX	ARCOL-75029	Prefer 1/4W carbon comp, any value 100-200 ohms
2	R4, R7	Resistor, 1/4W metal film, 1.0 ohms	KOA	MF14DCT52R1R00F	Mouser	660-MF14DCT52R1R00F	\$ 0.12	\$ 0.24	DigiKey	2019-MF14DCT52R1R00FCT-ND	Generic metal film 1/4W
2	R9, R10	Resistor, 1/2W+, 22 ohm	Vishay	PR02000202209JA100	Mouser	594-5083NW22R00JA100	\$ 0.35	\$ 0.70	DigiKey	BC4783CT-ND	Any type 1/2W or higher is fine
2	RV1, RV2	Trimpot, 1/4" vertical, 100 ohms	TT Electronics	64WR100LF	Mouser	858-64WR100LF	\$ 2.21	\$ 4.42	DigiKey	987-1582-ND	Bourns 3266W-1-101LF is fine
2	RV3, RV4	Trimpot, 1/4" vertical, 10k	TT Electronics	64WR10KLF	Mouser	858-64WR10KLF	\$ 2.26	\$ 4.52	DigiKey	987-1061-ND	Bourns 3266W-1-103LF is fine
1	RV5	Dual pot, RK27, 100k	Alps	RK27112A00CC	Mouser	688-RK27112A00CC	\$ 25.35	\$ 25.35	DigiKey	4809-RK27112A00CC-ND	RK27112A00AK is fine (longer shaft)
1	SW1	Power switch, NE18	C&K Switch	NE182AEESNP6AMP	Mouser	611-NE182AEESNP6AMP	\$ 9.48	\$ 9.48	DigiKey	CKN10846-ND	
1	at SW1	Switch cap	C&K Switch	FG GY	Mouser	611-FGGY	\$ 0.41	\$ 0.41	DigiKey	108-FGGY-ND	Or other colors and shapes
4	TP1, TP2, TP3, TP4	Test point	Keystone	5006	Mouser	534-5006	\$ 0.33	\$ 1.32	DigiKey	36-5006-ND	
2	at VT1, VT2	Octal socket PCB mount	Custom Connector	OB08-PCB	RS (Allied)	75701449	\$ 1.45	\$ 2.90	eBay		Use your favorite
2	VT1, VT2	26A7 tube	Sylvania, etc.	26A7GT	RES	26A7GT	\$ 7.00	\$ 14.00	Surplus Sales	(TUR) 26A7GT	
1		AC Adapter 54V 150W	Phihong	AA150M-540B-R	Mouser	552-AA150M-540B-R	\$ 53.95	\$ 53.95	DigiKey	993-AA150M-540B-R-ND	
1		Plastic case (optional)	Serpac	171J.BK	Mouser	635-171-I-B	\$ 17.25	\$ 17.25	DigiKey	SR171J-B-ND	
	RES	www.vacuumtubes.net									
	Mouser	www.mouser.com									
	Surplus Sales	www.surplussales.com									
	RS	www.rs-online.com									
	PCX	www.partsconnexion.com									