

	Qty	Label	Description	Part Number	Footprint	Function	See Note 1.
1	1	C1	10UF35V	ESK106M035AC3AA	CPCYL/D.200/LS.080/.031	powerup mute cct	
2	2	C2,C3	10UF 16V x7r 1206	C1206C106M4RACTU	SM/C_1210+TH	AF input decoupling	
3	1	C4	1UF/16v x7r 0805	CC0805KKX7R7BB105	SM/C_0805	GVDD bypass	
4	2	C6,C7	1500uF 35V	EEU-TP1V152	CYL/D.650/LS.300/.040	power supply bypass	
5	2	C8,C11	0.1UF 50V x7r 1206	CC1206KRX7R9BB104	SM/C_1206	power supply bypass	
6	2	C9,C10	1000PF 50V cog 1206	CC1206JRNPO9BN102	SM/C_1206	supplybypass	
7	2	C18,C21	1000PF 50V cog 1206	CC1206JRNPO9BN102	SM/C_1206	output filter ccts	
8	4	C12,C13,C14,C15	0.22UF 25V x5r 0805	TMK212BJ224KGHT	SM/C_0805	bootstrap cap	
9	2	C16,C17	0.01UF 100V x7r 1206	12061C103K4T2A	SM/C_1206	output snubber cct	
10	2	C19,C20	0.68UF 50V x7r 1206	CGA5L2X7R1H684M160AA	SM/C_1206	output filter cct	
11	2	C22,C23	330pF 50v COG 0805	08055A331JAT2A	SM/C_0805	direct output snubber cct	
12	1	C24	1UF 50V x7r 0805	C2012X7R1H105M085AC	SM/C_0805	AVCC bypass cct	
13	1	D6	1N4007	1N4007	DIODE-STAND-12-S.100	powerup mute cct	
14	1	J1	CON3 see note 2		POLCON.100/VH/TM1SQS/W.300/3	input connection points	
15	1	J2	CON2 see note 3		POLCON.100/VH/TM1SQS/W.300/2	mute connection points	
16	1	J5	CON2 see note 3		POLCON.100/VH/TM1SQS/W.300/2	sync connection points	
17	1	J3	CON2 see note 4	1716020000	WIEDMULLER-2PIN-DISCONNECT	output terminal block	
18	1	J4	CON2 see note 4	1716020000	WIEDMULLER-2PIN-DISCONNECT	power terminal block	
19	2	L1,L2	BIGINDUCTOR	See List Below	SM/IND_3116-BIG_REV1	output filter inductor - large	
20	2	L3,L4	INDUCTOR		IND-3116-SMALL-B	output filter inductor - small	
20	3	R1,R2	3R3 1206	CRCW12063R30FKEA	SM/R_1206	output snubber cct	RC1206FR-073R3L
21	1	R3	100K 0805	CRCW0805100KFKEA	SM/R_0805	fault ccts	RC0805FR-07100KL
22	1	R4	100K 0805	CRCW0805100KFKEA	SM/R_0805	gain/mode ccts	RC0805FR-07100KL
23	1	R6	100K 0805	CRCW0805100KFKEA	SM/R_0805	powerup mute cct	RC0805FR-07100KL
24	1	R5	20K 0805 see note 6	CRCW080520K0FKEA	SM/R_0805	gain/mode cct	RC0805FR-0720KL
25	2	R5	39K 0805 see note 6	CRCW080539K0FKEA	SM/R_0805	gain/mode cct	RC0805FR-0739KL
26	1	R8,R9	10R 1206	CRM1206-FX-10R0ELF	SM/R_1206	direct output snubber cct	
27	1	R10	4R99 0805	CRCW08054R99FKEA	SM/R_0805	AVCC bypass cct	RC0805FR-074R99L
28	1	R11	10K 0805	CRCW080510K0FKEA	SM/R_0805	powerup mute cct	RC0805FR-0710KL
29	1	U1	TPA3116	TPA3116D2DAD	SOG.65M/32/WG8.20/L10.80	main IC	
30	1	R7	47K 0805	RC0805FR-0747KL	SM/R_0805	sync filter see note 5	
31	1	C5	47pF 50V NP0 0805	08055A470JAT2A	SM/C_0805	sync filter see note 5	
Some Inductor options 2 per board are required							
		COILCRAFT	RFS1412	10uH	6.2A(10%L drop)	RFS1412-103ME	
		WURTH	WE-PD	10uH	10.5A(10%L drop)	7447709100	Used in kit
		COILCRAFT	SER2900	10uH	13A(10%L drop)	SER2915L-103KL	
		COILCRAFT	SER2900	10uH	18A(10%L drop)	SER2915H-103KL	
		WURTH	WE-HCF	10uH	22A(10%L drop)	7443631000	
		COILCRAFT	SER2900	10uH	28A(10%L drop)	SER2918H-103KL	
		WURTH	WE-HCF	10uH	34A(10%L drop)	7443641000	
Notes							
	1 Alternative part number because the ones in the "Part Number" column are minimum quantity of 10...your call						
	2 If you want to be able to disconnect the input or sync or have external mute functions you could use a header similar to picture (Molex 0022112032)						
	3 Same as note 2 but 2 pin part (Molex 0022112022)						
	4 You can wire direct if you want...or use a disconnectable connector...0.2" pin centres, 0.051" holes						
	5 Option for use on multiple boards...the gain/mode ccts would have to be adjusted for master/slave operation...read datasheet carefully.						
	6 Read data sheet for gain selection using R5...also affects input impedance						

