

Q17 version 13 SMD for 2x 35V - 38V AC transformer

	necessary	SMD	Mouser	
OPA1611	1	SOIC8	595-OPA1611AIDR	U1
FQA46N15	1		512-FQA46N15	Q15
IXTH48P20P	1		747-IXTH48P20P	Q16
TK4K1A60F	1		757-TK4K1A60FS4X	Q6
n-MosFET	1	SOT-223-3	522-ZVN4206GVTA	Q8
p-MosFET (dual)	1	SSOT-6	512-NDC7003P	Q9, Q11
992	2	SOT-23	512-FJV992FMTF	Q2, Q10
1845	3	SOT-23	512-FJV1845FMTF	Q3, Q7, Q12
IRF610	2		78-IRF610PBF-BE3	Q13, Q1
IRF9610	3		78-IRF9610PBF-BE3	Q14, Q4, Q5
Very high audiophile quality capacitor alternatively (C7.1 + C7.2)	1		(505-FKP1G031005H00KS + 505-MKP1F041005IKSSD)	C7 Audyn Cap KPSN 1.0 160V, equivalent to <b>Mundorf MCAP ZN630-1.0</b>
Bipolar electrolytic capacitors	2		647-UES1V221MHM	C2.1, C2.2 Nichicon - Muse: UES1V221MHM, for a precise, deep and controlled bass
470pF	1		505-FKP2470/630/10	C-GND
47-68pF	1		598-CD17ED560JO3F	C10, recommendation for 56pF: Cornell Dubilier CD17 is for high frequency
470-680pF	1		505-FKP1470/1600/5	C1 precise in the brilliant range, more spacious, more airy, can also be perceived from subtle to very fine
alternatively:			505-FKP2470/630/10	C1 present consonant range, suitable for loudspeakers with normal tweeter capacitors, somewhat sweeter
4.7nF	2		505-FKP24700/63/10	C8.1, C9.1 for smoothing the current of the LEDs and zener diodes
4.7 - 15nF	2		505-FKP24700/63/10	C-D1, C-D4 or: FKP2-63 6.8N, FKP2-63 15N for smoothing the current of the red LED, resolves the brilliant range more finely
15nF	1		505-FKP20.015/63/2.5	C27
33nF	8		505-FKP2C023301L00JS	C4, C5, C8, C9, C22, C23, extra: C11.1, C12.1 a fine increase in the airiness and delicacy of the highs and the sound stage
100nF	2		505-MKP2F031001F00JS	C4.1, C5.1 additional smoothing for the op amp
100nF	1		505-FKP1G031005H00KS	C17,
100 - 220nF	2		505-FKP1G031005H00KS	Cx additional capacitors for the transistors to play the last fine nuances and to increase the naturalness of the sound
alternatively:			505-FKP1G032206D00JS	
680nF	2		505-MKP1J036806F00KS	C18, C19
1.0 - 2.2uF	2		505-MKP1F041005IKSSD	C11, C12 1.0µF are sufficient for a sweet playing style and therefore the economical variant
alternatively:			505-MKP1F042206F00JS	
100 - 150uF/63V	2		667-EEU-EB1J101B	C13, C14 FR-A 150U 63, EB-A 220U 63
100 - 390uF/35V	2		667-EEU-FR1V101B	C3, C6 EB-A 330U 50 Type FR sounds precise, type EB sounds more emotional
470uF/63V	3		667-EEU-EB1J471B	C24, C25, C26 EB-A 470U 50, RAD FR 470/50 Type FR sounds precise, type EB sounds more emotional
1mF/63V	1		80-ESY108M063AM3AA	C28 RAD FR 820/63, EB-A 470U 63
> 2.2mF/63V	2		710-861010784009	C15, C16
alternatively:			80-ELH478M063AR4AV	
3.6V	2		771-BZX79-C3V6133	D8, D11
15V	2		512-BZX85C15	D3, D13
15V	2		512-BZX85C15	D5, D6
red				D14 status LED in the front of the housing
green	2		604-WP7113GD	D1, D4
8.2R 3W	1		594-5093NW8R200J	R31
10R	2		603-MF0207FTE26-10R	R10, R13
10R, 1/4W - smal	2		708-RNMF14FTC10R0	R5, R32
22R 1W	2		71-CMF6022R100FHEK	R26, R28
27R 1/4W - smal	2		603-MFR-25FTE52-27R	R-Q1, R-Q4
47R 1W	2		71-CMF6047R500FHEK	R11, R12
100r	6		603-MF0207FRE52-100R	R4, R6, R7, R9, Rin, R-GND
120R 1/4W - 1/2W	1		603-MFR-25FRF52-120R	R8
150r 1/4W - 1/2W	1		603-MFR-25FBF52-150R	R3
330R	4		603-MF0207FTE52-330R	R14, R15, R19, R20,
499R 1/4W	1		708-RNF14FTD499R	R22
560R 1W	1		594-MBE04140C5600FR2	R27
2.7k	1		603-MFR-25FTE52-2K7	R1
3.3k	1		603-MFR-25FTE52-3K3	R17
5.6k 1W	2		594-5073NW5K600J	R2, R21,
8.2k	3		603-MFR50SJT-52-8K2	R23, R29, R30
10k	1		594-64W103	R30 (potentiometer) or: 76-40 10K
18k 1W	1		71-CMF6018K000FHBF	R24
22k 1/4W - smal	2		708-RNMF14FTC22K0	R16, R18
47k				RLED METAL 47.0K for the power supply of a status LED, which is installed in the front of the housing, for example
4.7uH	2		994-1812CS-472XJLC	L2, L3 - only air coils or ceramic core
flat plug	5			
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mica	4			
isolating	2			
cooler	2			Q13, Q14
wire for coil, 1mm				L1 12mm inner diameter, 13 turns, approx. 1.2 µH