

b

BOM: 13cm PA Stage-2, 30 watts peak

<u>Qty</u>	<u>Value</u>	<u>Device</u>	<u>Package</u>	<u>Parts</u>	<u>Example supplier</u>	<u>Order Number</u>
1	NTC0805J5K0	5kohm NTC	SMD 0805	R11	Digikey	541-1128-1-ND or NTC0805J5K0-ND
1	78L05F	78L05F	SOT89	IC2	various	
1	BLF2425M9L30	2,4GHz power LDMOS	SOT1135A	T2	Digikey	BLF2425M9L30U
1	IRLML2502BPF	N-channel MOSFET	SOT23	Q3	various	
1	250	POTENTIOMETER_SMDUNIV	POTSMD_UNIV	R10	Digikey	SM-42TW102CT-ND
2		SMA Connectors	PCB mount, right angle panel type	X3, X4	Digikey	J10612-ND
2		not mounted		C18, C25		
1	1p	SMD ceramic cap NPO	SMD 0603	C12	various	
2	10p	SMD ceramic cap NPO	SMD 0603	C15, C19	various	
2	15p	SMD ceramic cap NPO	SMD 0603	C11, C17	various	
1	10u/10v	SMD ceramic cap X7R/X5R	SMD 0603	C14	various	
2	10u/35v	SMD ceramic cap X7R/X5R	SMD 0805	C13, C21	various	
1	1u/10v	SMD ceramic cap X7R/X5R	SMD 0603	C16	various	
1	100	SMD resistor 0,1 watts	SMD 0603	R13	various	
1	10k	SMD resistor 0,1 watts	SMD 0603	R14	various	
1	10ohm	SMD resistor 0,1 watts	SMD 0603	R9	various	
1	270	SMD resistor 0,1 watts	SMD 0603	R8	various	
1	47	SMD resistor 0,1 watts	SMD 0603	R7	various	
1	560	SMD resistor 0,1 watts	SMD 0603	R12	various	
1	10u/35v	SMD electrolytic cap	diameter 10mm	C23	various	

Remarks:

The N-channel MOSFET can be any standard type in SOT23 case if the Gate-to-source Transfer Characteristics shows a voltage below 3V. There are many alternatives like BSS138 and a lot more.

NTC: if these NTCs are not available, simply look for an NTC with 5kOhms in 0805 case

250 ohms Pot: any value between 250 ohms and 1k can be used. The PCB allows also mounting of bigger pots as the one shown here.

C23 electrolytic cap: any value between 10uF or 100uF ($\geq 35v$) can be used if the diameter is 10mm smaller caps can also be installed. Even non-SMD types can be installed by bending the wires.