

BOM LDMOS KWPA 1.3

Date: 01.Jul .2017

Author: DJ0ABR

Parts included in SMD assembled board:
(Teile die auf der SMD vorbestückten Platine bereits montiert sind)

<u>Qty</u>	<u>Value</u>	<u>Device</u>	<u>Package</u>	<u>Parts</u>	<u>Manufacturer / Distributor</u>	<u>Order No.</u>
1	IRLML6401	P-CHANNEL MOS FET	SOT23	T7	various	
3	100n	ceramic multilayer capacitor X7R	SMD 0603	C4, C42, C54	various	
3	10n	ceramic multilayer capacitor X7R	SMD 0603	C6, C10, C56	various	
1	10u	ceramic multilayer capacitor X7R	SMD 0603	C48	various	
5	1u	ceramic multilayer capacitor X7R	SMD 0603	C3, C5, C53, C55, C57	various	
2	10u	ceramic multilayer capacitor X7R	SMD 0805	C9, C47	various	
2	10n/500V	ceramic capacitor 450V	SMD 1206	C1, C2	RS	7661150
14	10n/500V	ceramic multilayer capacitor X7R	SMD 1210	C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C43, C44, C45, C46	RS	391141
8	100n/600V	ceramic multilayer capacitor X7R	SMD 1812	C12, C13, C17, C18, C49, C50, C51, C52	RS	1350200
4	10n/1kV	ceramic multilayer capacitor X7R	SMD 1812	C8, C11, C15, C16	mouser	77-VJ1812Y103MXGTBC
8	120p/3kV	ceramic multilayer capacitor C0G	SMD 1812	C22, C23, C24, C25, C26, C27, C28, C29	mouser	77-VJ1812A121KXGAT4X
2	1u/250V	ceramic multilayer capacitor X7R	SMD 1812	C14, C19	RS	1110132
2	100u/63	electrolytic cap.	Dia 11 max.	C20, C21	various	
8	DIODE SMB	standard Schottky Diode	SMB	D4, D5, D8, D9, D12, D13, D15, D16	RS	9033355
2	10k	resistor	SMD 0603	R17, R18	various	
2	1k	resistor	SMD 0603	R6, R11	various	
2	270	resistor	SMD 0603	R13, R24	various	
2	47	resistor	SMD 0603	R12, R23	various	
2	470	resistor	SMD 0603	R7, R14	various	
2	560	resistor	SMD 0603	R9, R21	various	
2	5k6	resistor	SMD 0603	R10, R22	various	
2	NTC0805J5K0	NTC	SMD 0805	R8, R15	NEOHM - TE CONNECTIVITY	NTC0805J5K0
12	10	resistor	SMD 1206	R26, R27, R28, R29, R30, R31, R32, R33, R34, R35, R36, R37	mouser	71-CRCW120610R0FKEB
2	10/2W	resistor	SMD 2512	R4, R5	RS	8711042

kwpa_Idmos2

1	100/2W	resistor	SMD 2512	R3	RS	7397957
4	22/2W	resistor	SMD 2512	R1, R2, R19, R20	various	
1	LP2992 - 5V	5V voltage regulator	SOT23-5	IC2	various	
2	4,7V	zener diode	SMA	D3, D7	Panasonic	DZ2W04700L
1	6,2V/1W	zener diode	SMA	D14	Panasonic	DZ2W06200L
2	8,2V	zener diode	SMA	D2, D6	Multicomp	1SMA4738
2	SMBJ15A	TVS protection diode	SMA	D10, D11	Bourns	SMBJ15A
1	PCB	PCB for KWPA 1.3			www.helitron.de/shop	

**Parts not included, must be mounted by user (through hole parts):
(Teile die der Benutzer noch kaufen und einbauen muss)**

<u>Qty</u>	<u>Value</u>	<u>Device</u>	<u>Package</u>	<u>Parts</u>	<u>Manufacturer / Distributor</u>	<u>Order No.</u>
1	BLF188	BLF188XR (or two BLF188XR)	BLF188	T1, T2	mouser Finder 30.22.7.012.0010 or Axicom V23105-A5476-A201	BLF188XRSU various
1	12V Relais	Relais 12V Kontakt: DPDT		K2		
1	Lesitungsrelais 12V	G5RL-1E-HR-12V	G2RE	K3	Omron	G5RL-1E-HR 12DC
2	250 ohms	Trimm Poti	RM 5 / 2,5mm	R16, R25	various	
8	Ferrite Core	Output Transformer, Balun, Ub Choke	Laird 28B1020-100		mouser	28B1020-100
1	Ferrite Core	Input Transformer	Laird 28B0562-100	TR1	mouser	875-28B0562-100
2	470uF/63V	electrolytic cap.	12.5 (Dia.) x 20mm	C40, C41	various	
1	Ferrite Ring	Ub EMI suppression	any code possible Dia abt. 30mm	L1	Ferritring z.B. Wuerth oder anderer	74270115