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Bill of Materials

Datum:	22. Juni 2020
Zeit:	18:21:16
Variant:	Variant of DCF_Emplänger_SHO- 4,7nF-SMD
Bezeichnung:	DCF77-Receiver with Signal level meter
Revision:	0.2

Quantity	Designator	Footprint	Bemerkung	Value	MFT	Order-code	shotech
6	C1, C3, C11, C16, C19, C23	CAPPR2-5x11 - RM2.5	10uF/50V/20%/RM2.5/105 °C /2000h	10uF/50V	Chang	RL1H100MC110B25CEH	001339
9	C2, C4, C9, C20, C21, C24, C25, C28, C32	CAP_Radial_5MM	Keramik-Vielschichtkondensator MLCC – bedrahtet 0.1uF 50volts 10% X7R 5mm LS	100nF/50V	Vishay / BC Components	K104K15X7RF53H5	001347
1	C6	CAP_Radial_5MM	Ker-Ko 100F 100V RM2.54 5% NPO	10pF	RICHWELL	TCH2A100J05S205N	001599
6	C7, C13, C14, C17, C26, C33	CAP_Radial_5MM_7k2_2k5	Folienkondensator, 100nF, 63V, RM5, 10%	100nF	KEMET	R82DC3100AA50K	001682
1	C10	CAP_Radial_5MM	CAP CER 1UF 50V X7R RADIAL	1uF	KEMET	C330C105M5R5CA7303	001414
1	C12	CAPPR2-5x11	47uF/35V/20%/1000hRM 2.0/105 °C	47uF/35V	Chang	KM1V470MC110B20CEO	001341
4	C15, C22, C29, C34	CAP_Radial_5MM_7k2_3k0	Folienkondensator, 220nF / 63V / 20% RM5	220n	Vishay	MKT 1826-422/066-48W	001412
1	C18	CAPPR5-10x12 - RM5	Elko, radial, 220 µF, 35 V, RM 5.0, Low ESR , 100mR, Ripple Current 660mA	220µF/35V	SAMWHA	WL1V227M1012MPA100	001336
1	C27	CAP_Radial_5MM	Ker-Ko 150pF 100V RM5,08 10% SL	150pF	Richwell	TSL2A151K05S505N	001686
2	C30, C31	CAPC3216X18N	Folienkondensator, MKP, 4,7nF, 50V, 3216, 2%	4,7nF	Panasonic	ECHU1H472GX5	001671
3	D1, D3, D16	LED3MM	LED diffus rot 80mcd 45° 3mm	LED_3mm_RED	Everlight	204-10SURD/S530-A3	001321
8	D2, D4, D5, D9, D10, D11, D13, D14	DO-35	Dioden (Allzweck, Leistung, Schaltung) Vr/75V Io/150mA T/R	1N4148	On Semiconductors	1N4148TR	001594
1	D6	LED3MM	LED diffus grün 50mcd 60° 3mm	LED_3mm_GREEN	Everlight	204-10SYGD/S530-E2	001323
2	D7, D8	LED3MM	LED diffus gelb 200mcd 40° 3mm	LED_3mm_YELLOW	Everlight	204-10UYD/S530-A3	001322
2	D12, D15	DO41	Schottky Dioden & Gleichrichter 1.0A 40V	1N5819	Taiwan Semiconductor	1N5819 R0	001568
1	L1	B65545B0010X000 - SHO1-L1	AL-250, N48, 14x8	P14x8	TDK	B65545B0010X000	001698
1	L2	B65545B0010X000 - SHO1-L2	AL-250, N48, 14x8	P14x8	TDK	B65545B0010X000	001697
1	LP1		PCB DCF77 Receiver	LP	shotech	PCB-DCF-SHO1	001685
14	PP1, PP2, PP3, PP4, PP5, PP6, PP7, PP8, PP13, PP14, PP15, PP16, PP17, PP18	PP-RTM1364E-Z	Lötstift quadr. 1.05x10mm verzinnt	RTM1364E-Z	Vogt	1364E.68	001570
1	Q1	TO50-BOT	N-Channel Dual Gate MOSFET 20V 30mA TO-50	BF960	Telefunken	BF960	001171
1	Q2	SC_TO-92	TRANSISTOR PNP 45V 0.1A TO-92	BC557B	Diotec	BC557BBK	001622
2	Q3, Q4	SC_TO-92	Bipolar (BJT) Transistor NPN 30V 100mA 300MHz 500mW Through Hole TO-92-3	BC548B	On-Semiconductor	BC548B	000872
1	R1	RES10-7.8X2.8	WIDERSTAND, 207, 1%	100R			001678
1	R2	RES10-7.8X2.8 - 100k	WIDERSTAND, 207, axial, 1%	100k			001610
6	R3, R9, R11, R17, R18, R20	RES10-7.8X2.8	WIDERSTAND, 207, 1%	1M			001668
1	R4	RES10-7.8X2.8 - 47R	WIDERSTAND, 207, axial, 1W 5% 47R	47R/1W	Vitrohm	POS100JT-52-47RAA	001608
1	R5	RES10-7.8X2.8 - 1k	Metallsch. 0207 1/4W 1%	120k	frei		001684
2	R6, R22	RES6-5.3.4X1.9	Metallsch. 0204 1/4W 1%	1k	frei	frei	001255
4	R7, R21, R26, R27	RES6-5.3.4X1.9	WIDERSTAND, 204, axial, 1%	47k	frei	frei	001250
1	R8	RES6-5.3.4X1.9	WIDERSTAND, 204, 1%	1M			001251
1	R10	RES10-7.8X2.8	WIDERSTAND, 207, axial, 10k, 1%	680R			001236
1	R12	PT6KV	10k Trimmer	10k	Piher	PT6KV-103A2020	001612
1	R13	RES10-7.8X2.8	WIDERSTAND, 207, axial, 1%	220k	frei		001675
1	R14	RES6-5.3.4X1.9	WIDERSTAND, 204, axial, 1%	10k	frei	frei	001253
1	R15	RES10-7.8X2.8 - 2k2	WIDERSTAND, 207, axial, 1%	2k2	frei	RMGK002.2	001238
1	R16	RES10-7.8X2.8	Metallsch. 0207 1/4W 1% 1K5 lose	1.5k		RMK001.5	001673
1	R19	RES10-7.8X2.8	WIDERSTAND, 207, 1%	0R			
1	R23	RES6-5.3.4X1.9	WIDERSTAND, 204, axial, 1%	68k	frei	RMGE068	001243
1	R24	RES10-7.8X2.8 - 3k3	WIDERSTAND, 207, axial, 1%	3M9			001693
1	R25	RES6-5.3.4X1.9	WIDERSTAND, 204, axial, 1%	270k			001695
1	R28	RES6-5.3.4X1.9	WIDERSTAND, 204, axial, 1%	100k			001694
1	R29	RES6-5.3.4X1.9	WIDERSTAND, 204, axial, 1%	2k2	frei	frei	001696
1	U1	P008	2xOp-Amp JFET +-18V 13V/us DIP8	TL082P	Texas Instruments	TL082CP	001670
1	U2	SIP9-UTC	5-DOT DUAL LED LEVEL METER DRIVER	LA2284A	Unisonic Technologies	LA2284AG-G09-T	001357
1	U3	SC_TO-92	U-Reg +5V 100mA TO92	78L05	ON Semiconductor	MC78L05ACPG	001666
1	U4	P008	BiMOS Op-Amp 15 MHz, 9 V/µs, ± 2.5V bis ± 8V, DIP, 8	CA3130	Renesas/Intersil	CA3130EZ	001692
1	U5	SC_TO-92	U-Reg +9V 100mA TO92	78L09	STMicroelectronics	STMicroelectronics	001667
1	U6	N014	Quadruple 2-Input Positive-NAND Gate	CD4093B	TI	CD4093BE	001687
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