

Count	Value	RefDes	Part description	Case	Mfg name	Mfg ref	Distributor	Distributor Ref	Unit P (€)
-	-	-	SMD PARTS	-	-	-	-	-	-
2	49.9	R47,R48	SMD precision thin film resistor, MELF type, 1%, +/-25ppm, 250mW, 200V ,SMD, CMS	MELF0204	Vishay	MMA02040C4999FB3	Mouser	594-MMA02040C4999FB3	0,091
4	100	R9,R12 R13,R55	SMD precision thin film resistor, MELF type, 1%, +/-25ppm, 250mW, 200V ,SMD, CMS	MELF0204	Vishay	MMA02040C1000FB3	Mouser	594-MMA02040C1000FB3	0,091
1	475	R20	SMD precision thin film resistor, MELF type, 1%, +/-25ppm, 250mW, 200V ,SMD, CMS	MELF0204	Vishay	MMA02040C4750FB3	Mouser	594-MMA02040C4750FB3	0,091
12	750	R7,R16 R31,R32 R33,R34 R37,R38 R41,R42 R43,R44	SMD precision thin film resistor, MELF type, 1%, +/-25ppm, 250mW, 200V ,SMD, CMS	MELF0204	Vishay	MMA02040C7500FB3	Mouser	594-MMA02040C7500FB3	0,091
5	820	R3,R5 R51,R53 R58	SMD precision thin film resistor, MELF type, 1%, +/-25ppm, 250mW, 200V ,SMD, CMS	MELF0204	Vishay	MMA02040C8200FB3	Mouser	594-MMA02040C8200FB3	0,091
6	1k	R6,R8 R10,R24 R35,R46	SMD precision thin film resistor, MELF type, 1%, +/-25ppm, 250mW, 200V ,SMD, CMS	MELF0204	Vishay	MMA02040C1001FB3	Mouser	594-MMA02040C1001FB3	0,091
3	1.62k	R21,R22 R23	SMD precision thin film resistor, MELF type, 1%, +/-25ppm, 250mW, 200V ,SMD, CMS	MELF0204	Vishay	MMA02040C1621FB3	Mouser	594-MMA02040C1621FB3	0,091
1	3.01k	R11	SMD precision thin film resistor, MELF type, 1%, +/-25ppm, 250mW, 200V ,SMD, CMS	MELF0204	Vishay	MMA02040C3011FB3	Mouser	594-MMA02040C3011FB3	0,091
4	5.1k	R17,R18 R39,R45	SMD precision thin film resistor, MELF type, 1%, +/-25ppm, 250mW, 200V ,SMD, CMS	MELF0204	Vishay	MMA02040C5101FB3	Mouser	594-MMA02040C5101FB3	0,091
3	7.5k	R25,R52 R54	SMD precision thin film resistor, MELF type, 1%, +/-25ppm, 250mW, 200V ,SMD, CMS	MELF0204	Vishay	MMA02040C7501FB3	Mouser	594-MMA02040C7501FB3	0,091
6	10k	R14,R15 R30,R36 R40,R50	SMD precision thin film resistor, MELF type, 1%, +/-25ppm, 250mW, 200V ,SMD, CMS	MELF0204	Vishay	MMA02040C1002FB3	Mouser	594-MMA02040C1002FB3	0,091
5	20k	R27,R28 R29,R56 R57	SMD precision thin film resistor, MELF type, 1%, +/-25ppm, 250mW, 200V ,SMD, CMS	MELF0204	Vishay	MMA02040C2002FB3	Mouser	594-MMA02040C2002FB3	0,091
1	24k	R26	SMD precision thin film resistor, MELF type, 1%, +/-25ppm, 250mW, 200V ,SMD, CMS	MELF0204	Vishay	MMA02040C2402FB3	Mouser	594-MMA02040C2402FB3	0,091

Count	Value	RefDes	Part description	Case	Mfg name	Mfg ref	Distributor	Distributor Ref	Unit P (€)
3	27k	R59,R60 R61	SMD precision thin film resistor, MELF type, 1%, +/-25ppm, 250mW, 200V ,SMD, CMS	MELF0204	Vishay	MMA02040C2702FB3	Mouser	594-MMA02040C2702FB3	0,091
2	100k	R19,R49	SMD precision thin film resistor, MELF type, 1%, +/-25ppm, 250mW, 200V ,SMD, CMS	MELF0204	Vishay	MMA02040C1003FB3	Mouser	594-MMA02040C1003FB3	0,091
1	10k	RV3	Trimming potentiometer, 25 turns 10% 0.75W100ppm/dC, low profile PCB mount vertical adjustment	3296W	Vishay	652-3296W-1-103LF	Mouser	6523296W-1-XXX-LF	2,28
1	500k	RV2	Trimming potentiometer, 15 turns 10% 0.75W 100ppm/dC, low profile PCB mount, horizontal adjustment	3006P	Vishay	652-3006P-1-504LF	Mouser	652-3006P-1-XXX-LF	1,97
1	500k	RV1	Trimming potentiometer, 25 turns 10% 0.75W100ppm/dC, low profile PCB mount vertical adjustment	3296W	Vishay	652-3296W-1-504LF	Mouser	6523296W-1-XXX-LF	2,28
4	100pF/50V	C4,C5 C34,C40	Multilayers ceramic capacitors, NPO/COG dielectric, 805 SMD case, 100pF/50V CMS	805	Murata	GRM2165C1H101FA01D	Mouser	81-GRM2165C1H101FA01D	0,172
8	390pF/50V	C6,C7 C8,C9 C15,C16 C19,C20	Multilayers ceramic capacitors, NPO/COG dielectric, 805 SMD case, 390pF/50V CMS	805	Murata	GRM2165C1H391FA01D	Mouser	81-GRM2165C1H391FA01D	0,272
4	470pF/50V	C10,C17 C42,C43	Multilayers ceramic capacitors, NPO/COG dielectric, 805 SMD case, 470pF/50V CMS	805	Murata	GRM2165C1H471FA01D	Mouser	81-GRM2165C1H471FA01D	0,308
2	2.2nF/50V	C11,C18	Multilayers ceramic capacitors, NPO/COG dielectric, 805 SMD case, 2,2nF/50V CMS	805	Murata	GRM2165C1H222FA01D	Mouser	81-GRM2165C1H471FA01D	0,869
3	10nF/50V	C36,C37 C41	Multilayers ceramic capacitors, NPO/COG dielectric, 805 SMD case, 10nF/50V CMS	1206/805	Murata	GRM2195C1H103FA01D	Mouser	81-GRM2195C1H103FA01D	0,588
3	Not used	C38,C39 C35	<i>Theses capacitor are not populated for 10kHz operation, see schematics</i>	1206/805					
2	10nF/100V	C12,C13	Ceramic multilayers capacitor, X7R 10%, CMS case 0805	805	Vishay	VJ0805Y103KXB	Mouser	77-VJ0805Y103KXB	0,054
15	100nF/25V	C22,C23 C24,C25 C26,C27 C28,C29 C30,C31 C32,C33 C44,C45 C46	Ceramic multilayers capacitor, X7R 20%,25V CMS case 0805	805	Vishay	VJ0805Y104MXXAC	Mouser	77-VJ0805Y104MXXAC	0,054
1	330nF/16V	C2	Stacked Metallized Plastic Film Chip Capacitor, ECPU type, 330nF 16V 20%, SMD, CMS	1206	Panasonic	ECPU1C334MA5	Mouser	667-ECPU1C334MA5	0,751
1	470nF/16V	C1	Stacked Metallized Plastic Film Chip Capacitor, ECPU type, 470nF 16V 20%, SMD, CMS	1206	Panasonic	ECPU1C474MA5	Mouser	667-ECPU1C474MA5	0,76
2	1uF/16V	C14,C21	Stacked Metallized Plastic Film Chip Capacitor, ECPU type, 1uF 16V 20%, SMD, CMS	1210	Panasonic	ECPU1C105MA5	Mouser	667-ECPU1C105MA5	0,815

Count	Value	RefDes	Part description	Case	Mfg name	Mfg ref	Distributor	Distributor Ref	Unit P (€)
1	4.7uF/16V	C3	Ceramic multilayers capacitor, 4.7uF 16V X7R, SMD, CMS size 1206	1206	Murata	GRM31CR71C475MA01L	Mouser	81-GRM31CR71C475MA1L	0,244
2	10uF/16V POLY	C49,C51 C52,C53	Aluminium polymer capacitor , 2000h@ 105dC, 10uF16V, lac=2200mA, ESR=30mR, SMD, CMS	C_D5.3X5.3E2	WE	875105359001	Mouser	710-875105359001	0,44
2	47uF/20V POLY	C50,C54	Aluminium polymer capacitor , 2000h@ 105dC, 47uF20V, lac=2670mA, ESR=25mR, SMD, CMS	C_D6X6E2.5M	WE	875105445006	Mouser	710-875105445006	0,63
1	GREEN	D10	3mm cylindrical led, green, T1-3mm 562nm, Vf=2.2V@20mA, 6mcd@10mA.	LED3MM_BOU	Kingbright	WP424GDT	Mouser	604-WP424GDT	0,165
9	LL4148	D8,D9 D11,D12 D15,D16 D17,D18 D19	Small signal fast switching diode, Vrrm 100V, Ifav 150mA, Pd 500mW, Cd=4pF, Trr=8ns, , SMD, CMS	MLL34_POL	Vichay	LL4148	Mouser	78-LL4148-GS18	0,109
1	BC560C	T1	PNP signal bipolar transistor, Vce -45V, Ic 100mA, hfe 380-800, Pt 625mW, TO92	TO92	ON	BC560C	Mouser	512-BC560CTA	0,192
0	LM317LCD	U4	3 terminal positive adjustable voltage regulator, Vin 3-36V, Vout 1.25-32V Iout 100mA, Rthjc 97°C/W, CMS, SMD SOIC8	SOIC8_N	TI	LM317LCD	Mouser	595-LM317LCD	0,371
0	LM337LM	U5	3 terminal adjustable negative voltage regulator, Vin 3-36V, Vout 1.25-32V Iout 100mA, Rthjc 97°C/W, CMS, SMD SOIC8	SOIC8_N	TI	LM337LM	Mouser	926-LM337LMX	0,697
2	LT1007CS8	U10,U11	Single low noise high speed OPAMP, Vs +/-22Vmax, Offset 60uV, Ibias=50nA SR=2.5 V/us, GBW=8MHz, Noise 2.8nV/Hz, max,SMD,	SOIC8_N	LinearTech	LT1007CS8	Farnell	113-6622	4,44
3	OP07CD	U12,U13 U14	Single low noise OPAMP, Vs +/-22Vmax, Offset 85uV, Ibias=2nA SR=300mV/us, GBW=600kHz, Noise 10nV/Hz, max,SMD, CMS <i>Note : these three OPAMP can be replaced by OP27 or LT1007 (but more expensive)</i>	SOIC8_N	TI	OP07CD	Mouser	595-OP07CD	0,67
1	LT1228CS8	U3	100MHz current feedback amplifier with DC gain control, SR1000V/us, BW 100MHz, En=6nV, Vcc +/-18Vmax	SOIC8_N	LinearTech	LT1228CS8	Farnell	956-0335	8,48
2	LT1229CS8	U9,U15	Dual high speed currentfeedback OPAMP, Vs +/-18Vmax, Offset 15mV, Ibias=+-10uA SR=1000V/us, GBW=100MHz, Iout= 30mA,No	SOIC8_N	LinearTech	LT1229CS8	Farnell	956-0343	7,94
1	LT1761ES5-BYP	U1	LOW noise micropower positive LDO, Io=100mA , Noise=20uV, Vin =20Vmax, SMD CMS, SOT23-5	SOT23-5	LinearTech	LT1761ES5-BYP	Farnell	166-3782	2,52
1	LT1964ES5-BYP	U2	LOW noise micropower negative LDO, Io=200mA , Noise=30uV, Vin =20Vmax, SMD CMS, SOT23-5	SOT23-5	LinearTech	LT1964ES5-BYP	Farnell	166-3815	3,48
-	-	-	THRU HOLE PARTS	-	-	-	-	-	-
1	OGGLE_DPDT_RA	S1	Sub miniature toggle switch, right angle PCB mount, 100mA/20V 20mR,	SWITCH_SUB	Multicomp	2AD1T2A2M7RE	Farnell	155-0122	2,25
2	BNC_50R_FEM_RA	X1,X4	BNC connector, female, righ angle PCB mounting, 50 Ohms, low cost	BNC_COUDE	Molex	SD73137-5006	Mouser	538-73137-5003	2,03
1	1455J1201	BX1	Hammond enclosure, extruded aluminium, natural color, for 75x120mm PCB dimensions 120 x 78 x 27mm		Hammond	1455J1201	Farnell	427-2833	15,83
1	SJ1-353	CX1	Stereo 3,5mm jack connector 12V 1A max, R=50mOhms 5000 cycles, M6 threaded with nut, panel mount, low cost		CUI	SJ1-3533	Mouser	490-SJ1-3533	1,74
								TOTAL	92,32 €