

ok	g	Qty	Description	Value	RefDes	Pattern	Mfg	Mfg reference
		-	--- SMD PARTS ---	-	-	-	-	-
		2	Ceramic capacitor X7R 10%, SMD case 0805	10nF/50V	C17,C61	0805		
		3	Ceramic capacitor X7R 10%, SMD case 0805	100nF/50V	C15,C16	0805		
					C63			
		3	Single OPAMP, Ultra low THD -105dB@20kHz , low noise 1nV ² /Hz, Vios=120uVmax max, Vs +/-18Vmax, GBW=10MHz, SR=17V/us , Ibias=200nAmax , SMD	AD8597ARZ	U7,U8	DIP8SOIC8	AD	AD8597ARZ
					U9			
		1	Positive adjustable voltage regulator, Iout = 0.5A Vout +1.2V à +37V, SOT223, SMD	LM317MDCY	U19	SOT223	TI	LM317MDCY
		1	Negative adjustable voltage regulator, Iout = 1A Pmax=2W Vout +1.2V/+37V, SOT223, SMD	LM337IMP	U1	SOT223	NS	
		1	Precision wide bandwidth RMS to DC converter, SMD, MSOP8	LTC1968SMD8	U3	MSOP8	LT	

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			--- THRU HOLE PARTS ---					
		2	resetable Fuse, Polyswitch e MF-R type	MF-R030	R33,R34	8x3.1 p5.08mm	Bourns	MF-R.030.
		2	Resistor 250mW MRS25 type , 1%, 250V, 150ppm	0	R60,R69	RES MRS25		
		1	Resistor 250mW MRS25 type , 1%, 250V, 150ppm	20	R73	RES MRS25		
		2	Resistor 250mW MRS25 type , 1%, 250V, 150ppm	49.9	R63,R55	RES MRS25		
		8	Resistor 250mW MRS25 type , 1%, 250V, 150ppm	100	R27,R28 R30,R39 R54,R57 R59,R67	RES MRS25		
		2	Resistor 250mW MRS25 type , 1%, 250V, 150ppm	150	R19,R20	RES MRS25		
		1	Resistor 250mW MRS25 type , 1%, 250V, 150ppm	221	R72	RES MRS25		
		2	Resistor 250mW MRS25 type , 1%, 250V, 150ppm	243	R46,R47	RES MRS25		
		1	Resistor 250mW MRS25 type , 1%, 250V, 150ppm	549	R75	RES MRS25		
		2	Resistor 250mW MRS25 type , 1%, 250V, 150ppm	619	R22,R23	RES MRS25		
		2	Resistor 250mW MRS25 type , 1%, 250V, 150ppm	732	R44,R45	RES MRS25		
		2	Resistor 250mW MRS25 type , 1%, 250V, 150ppm	909	R15,R56	RES MRS25		
		5	Resistor 250mW MRS25 type , 1%, 250V, 150ppm	1k	R14,R24 R58,R64 R68	RES MRS25		
		2	Resistor 250mW MRS25 type , 1%, 250V, 150ppm	1.1k	R79,R80	RES MRS25		
		2	Resistor 250mW MRS25 type , 1%, 250V, 150ppm	2k	R71,R74	RES MRS25		
		1	Resistor 250mW MRS25 type , 1%, 250V, 150ppm	3.16k	R29	RES MRS25		

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		1	Resistor 250mW MRS25 type , 1%, 250V, 150ppm	4.02k	R65	RES_MRS25		
		1	Resistor 250mW MRS25 type , 1%, 250V, 150ppm	4.75k	R16	RES_MRS25		
		1	Resistor 250mW MRS25 type , 1%, 250V, 150ppm	5.11k	R35	RES_MRS25		
		1	Resistor 250mW MRS25 type , 1%, 250V, 150ppm	5.62k	R40	RES_MRS25		
		1	Resistor 250mW MRS25 type , 1%, 250V, 150ppm	5.9k	R32	RES_MRS25		
		1	Resistor 250mW MRS25 type , 1%, 250V, 150ppm	6.19k	R31	RES_MRS25		
		2	Resistor 250mW MRS25 type , 1%, 250V, 150ppm	6.65k	R76,R77	RES_MRS25		
		11	Resistor 250mW MRS25 type , 1%, 250V, 150ppm	10k	R11,R12 R26,R37 R41,R49 R51,R66 R70 R21,R78	RES_MRS25		
		1	Resistor 250mW MRS25 type , 1%, 250V, 150ppm	10.2k	R36	RES_MRS25		
		1	Resistor 250mW MRS25 type , 1%, 250V, 150ppm	13k	R50	RES_MRS25		
		1	Resistor 250mW MRS25 type , 1%, 250V, 150ppm	17.8k	R43	RES_MRS25		
		1	Resistor 250mW MRS25 type , 1%, 250V, 150ppm	29.4k	R17	RES_MRS25		
		1	Resistor 250mW MRS25 type , 1%, 250V, 150ppm	43.2k	R53	RES_MRS25		
		1	Resistor 250mW MRS25 type , 1%, 250V, 150ppm	51.1k	R62	RES_MRS25		
		1	Resistor 250mW MRS25 type , 1%, 250V, 150ppm	68,1k	RP_R40	RES_MRS25		
			Add this resistor in parallel with R40, please see history file for further info.					

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		4	Resistor 250mW MRS25 type , 1%, 250V, 150ppm	110k	R38,R42 R48,R52	RES_MRS25		
		2	Resistor 250mW MRS25 type , 1%, 250V, 150ppm	1M	R6,R18	RES_MRS25		
		2	Resistor 250mW MRS25 type , 1%, 250V, 150ppm	2.2M	R13,R61	RES_MRS25		
		1	Resistor 250mW MRS25 type , 1%, 250V, 150ppm <i>This resistor is only mounted if you want 10M input impedance, with 10x lower input sensitivity (jumper W3 open).</i>	9M	R25	RES_MRS25		
		2	Trimmer cermet 25 turns type 3296, tol 10%, +/- 100ppm/°C, P70° 0.5W	2k/25t-V	RV4,RV5	3296W	Bourns	
		1	Trimmer cermet 25 turns type 3296W, tol 10%, +/- 100ppm/°C, P70° 0.5W	2k/25t-V	RV2	3296W	Bourns	
		1	Trimmer cermet 25 turns type 3296W, tol 10%, +/- 100ppm/°C, P70° 0.5W	10k/25t-V	RV3	3296W	Bourns	
		1	Trimmer cermet 25 turns type 3296W, tol 10%, +/- 100ppm/°C, P70° 0.5W	50k/25t-V	RV1	3296W	Bourns	
		1	Trimmer cermet 25 turns type 3296, tol 10%, +/- 100ppm/°C, P70° 0.5W	1M/25t-V	RV6	3296W	Bourns	
		2	Ceramic capacitor, flat type, NPO dielectric- TempCoeff NPO (0), 5%, -55 to +125°C	10pF/100V	C1,C28	2.3_h6.3_e5.08_p0.8	BC Components	2222-679-10109
		2	Ceramic capacitor multilayers NPO, +/-5%, -55/+125°C	100pF/100V	C19,C31	2.5_h4_e5.08_p0.8m	BC Components	2252-306-12101
		3	Polystyrene capacitor, FSC type, low leakage (50 Gohms), 2.5%, -40/+85°C, Ct N150 +/- 50ppm/°C Note : Cx must be mounted in parrallel of C2 (see history file for V2.3) C2,C3 can be replaced by Xicon séries 23P Polystyrene (available at Mouser)	100pF/160V	C2,C3 Cx	.8_h5_e12.7_p0.8mm	LCR	
		1	Ceramic capacitor multilayers NPO, +/-5%, -55/+125°C	470pF/100V	C10	2.5_h4_e5.08_p0.8m	BC Components	2252-306-10-471
		1	Ceramic capacitor multilayers NPO, +/-5%, -55/+125°C	2.2nF/100V	C54	3.2_h5_e5.08_p0.8mm		
		1	Polystyrene capacitor EXFS type (LCR).Tolerance 1%, Us=60V, Ct= -110 + - 60ppm/°C. Can be replaced by Xicon séries 23P Polystyrene (available at Mouser)	10000pF/60V	C13	EXFS1	LCR	

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		32	Polyester metallised capacitor MKT, 85°C, 10%, Prt@Ur=18 à 60V/µs, general use: filtering and decoupling	100nF/63Vdc	C5,C6 C7,C8 C9,C21 C25,C26 C35,C36 C39,C40 C41,C44 C45,C46 C47,C48 C55,C57 C62,C66 C71,C72 C73,C74 C75,C76 C77,C78 C79,C80	7.2_h6.5_e5.08_p0.8	BC Components	2222-370-75104
		11	Polyester metallised capacitor MKT, general use: filtering and decoupling	2.2uF/63Vdc	C11,C12 C14,C18 C20,C27 C32,C59 C23,C24 C60	CAP2C	BC Components	2222-370-75225
		10	Solid electrolytic capacitor , 10000h at 125°C, 20%, -55/+175°C, ESR=43@100Hz, Ir=0.185A/40°@100kHz, Z =2@100kHz <i>(If not available, they can be replaced by standard electrolytic capacitor, low ESR are better)</i>	4.7uF/16V	C50,C51 C52,C53 C56,C58 C64,C65 C69,C70	4.5_h12.5_e5.2_p0.8	BC Components	2222-122-35478
		2	Solid electrolytic capacitor, 10000h à 125°C, 20%, -55/+175°C, ESR=30@100Hz, Ir=0.211A/40°@100kHz, Z =1.5@100kHz <i>(If not available, they can be replaced by standard electrolytic capacitor, low ESR are better)</i>	10uF/10V	C42,C43	4.5_h12.5_e5.2_p0.8	BC Components	2222-122-34109
		2	Radial electrolytic capacitor , Panasonic SU type , 85°C, dimensions D8 H11.5 e=3.5mm , 22uF 50V unpolarised .	22uF 50V NP	C33,C34	CO37B13_E3.5MM	Panasonic	ECEA1HN220U

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		2	electrolytic capacitor, 2500h à 85°C, +/-20%, -40/+85°C, usage general	47uF/25V	C37,C38	d5_h11_e2/5_p0.8mm	BC Components	2222-037-36479
		2	electrolytic capacitor, 2500h à 85°C, +/-20%, -40/+85°C, usage general	470uF/16V	C29,C30	d10_h12_e5_p0.8mm	BC Components	2222-037-35471
		2	electrolytic capacitor ultra low impedance radial SP audio type, Sanyo.	470uF/10V SP	C22,C49	CO37B15	Sanyo Panasonic	40SP470M- 25SEK470M
			OBSOLETE PART : Can be replaced by Panasonic OSCON 25SEK470M , please see history file.					
		1	Adjustable capacitor, 1.5 to 6 pF, Q >300 (10MHz) , V <=200V , TempCo NPO +/-250 ppm	1.5 a 6 pF	CV1	CV05 Rouge	Murata	TZ03Z050F169B00
		4	Choke inductor 3 turns, vertical mount, Z=1000 ohms@40 MHz	VK200	L1,L3 L4,L5	SC_hOC_VERT	Philips	
		2	Rectifier diode If = 1A, Vrrm = 1000V	1N4007	D8,D9	DO41		1N4007
		2	Schottky diode Vrrm=30V, If=200mA, Vf 0.26 à 1V, trr 5ns, -65/+125°C	BAT42	D6,D11	O204AH (DO35 Glas	Vishay	BAT42
		1	Zener diode 7.5V, type 55C, 500mW	BZX55C7V5	D7	DO35		BZX55C7V5
		1	LED cylindric T-1 (3mm) color green	GREEN	D3	LED3MM	Kingbright	WP424GPD
		2	LED cylindric T-1 (3mm) color red	RED	D10,D14	LED3MM	Kingbright	WP424HDT
		2	N channel depletion JFET UHF/VHF transistor, Vds=20V Id=30mA, TO92 Warning ! Please see history file before to mount T4 and T5 .	2N5486G	T4,T5	TO92	ON	2N5486G
		2	P channel MOSFET Transistor, Rds 20R @ Vgs=-10V, Id=-0.15A, Vgs=-0.8/2.8V, Vds=-200V OBSOLETE PART : Can be replaced by ZVP3306 , please see history file for proper mount (not pin compatible).	BSS92 ZVP3306	T1,T2	TO92	Vishay	BSS92 ZVP3306
		1	High speed low power single video OPAMP, GBW=50MHZ, SR=350V/us, Vio=2mVmax, Ibias=6.6uAmax, En=15nV/Hz², Vcc=+/-18Vmax, Output current 50mAmin, SOIC8 or DIP8	AD817	U12	DIP8SOIC8	AD	AD817
		1	92dB DC to 440MHz low cost logarithmic amplifier, Vcc =2.7..5.5V, DIP8	AD8307ANZ	U2	DIP8_N	AD	AD8307ANZ
		1	Quad voltage comparators, Low Power, DIP14	LM339	U13	DIP14 N	NSC	LM339

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		1	Dual OPAMP, Low Ibias 2fA typ, Vio 3mV, SR 0.8V/us, GBW=1.4MHz En=22nV/Hz ² , Vcc 16Vmax, RRO, CM include ground	LMC662	U10	DIP8SOIC8	NS	LMC662
		1	very low noise, low THD Active RC quad universal filter, SSOP20 or DIP16	LTC1562	U6	DIP16_SSOP20	LT	LT1562
		1	Single OPAMP rail to rail Vcc 2.7...12V, SR=13V/us Vio=350uVmax GBW=15MHz Ibias=360nA, e=9.5nV/Hz ² ,	OP162GSZ	U17	DIP8SOIC8	AD	OP162GSZ
		1	Dual OPAMP, Ultra low THD, low noise 8nV ² /Hz, Vios=2mVmax max, Vs +/-18Vmax, GBW=8MHz, SR=20V/us, Ibias=+/-100pAmax, SOIC8 ou DIP8	OPA2134	U15	DIP8SOIC8	TI	OPA2134
		1	High performance DIFET OPAMP, Ibias=5pA, GBW=16MHz SR=55V/us, Vio=250uVmax, THD=0.00003%@1kHz(G=+1), En=5nV/Hz ² @1kHz, Vcc=+/-18Vmax, SOIC8 or DIP8	OPA627	U16	DIP8SOIC8	TI	OPA627
		2	Precision adjustable shunt voltage regulator, Vref=2.5V, TO92	TL431C	U4,U5	TO92	TI	TL431CLP
		1	Subminiature toggle switch, TL type, unipolar, ON/ON, vertical mount right angle PCB mount,	ON-ON (MOM)	S2	5x22.91_h8.65mm	APEM	TL36WW
		5	BNC connector female, right angle, PCB mount, fixing nuts, not isolated, 50 ohms	BNC FEM	X6,X7 X8,X9,X10	BNC_COUDE_BLD1	Vitelec	VBM201
		2	single row 3 pins 2.54mm pitch [100mil] male (contact lenght 7 mm), isol. 2.6mm	P2.54-D-L7	X1,X2	1x3p2.54drt-L7mm	Kontek Comatel	471-0334-103-440
		1	Hammond natural aluminium extruded enclosure 1455L1601 dimensions 163 x 103 x 31.5mm				Hammond	1455L1601
		1	Mini XLR panel 3pins mâle connector				REAN/Neutrik	RT3MP