

Bill of Materials

Power Supply Board/ Robot Chassis

Source Data From: Project Power Supply.PRJPCB
 Project: Project Power Supply.PRJPCB
 Variant: None

Exchange rate to CHF 1.65 Euro
 1.05 \$



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Footprint	Value	LibRef	Designator	Description	Quantity	Manufacturer	Part Number	Distributor	Distributor Number	Packaging unit	lead time	RoHS	Price	Currency	In CHF	CHF for Qty
Battery_new	PA-LP987	BATTERY_NEW	B1		1	Contrel	PA-LP987	Contrel	PA-LP987	1	5 Weeks	yes		CHF		
1608[0603]	10nF 0603	CAP	C1, C2, C3, C4, C5, C6, C9, C20, C29	Capacitor	9	AVX	06035C103KAT2A	Farnell	1327 675	10		yes	0.07	CHF	0.07	0.63
C1206	10uF	Cap Semi	C7, C8	Capacitor (Semiconductor SIM Model)	2	Murata	GRM31CR70J106KA01L	Farnell	9527 729	1		yes	0.25	CHF	0.25	0.50
1608[0603]	22pF 0603	CAP	C10, C19	Capacitor	2	Epcos	B37930K5220J60	Farnell	9753 486	10		yes	0.083	CHF	0.083	0.17
C1210	100uF ceramic	Cap Semi	C11, C17, C21, C27	Capacitor (Semiconductor SIM Model)	4	Kemet	C1210C107M9PAC7800	Farnell	1108 328	1		yes	4.13	CHF	4.13	16.52
C0805	22uF 0805	CAP	C12, C15, C22, C25	Capacitor	4	Kemet	C0805C226M9PAC7800	Farnell	1108 326	1		yes	1.8	CHF	1.8	7.20
1608[0603]	47pF 0603	CAP	C13, C23	Capacitor	2	Murata	GRM1885C1H470JA01D	Farnell	8819 840	10		yes	0.071	CHF	0.071	0.14
1608[0603]	820pF 0603	CAP	C14, C24	Capacitor	2	PHYCOMP	2238 861 15821	Farnell	718 555	10		yes	0.115	CHF	0.115	0.23
1608[0603]	1nF 0603	CAP	C16, C28, C30, C31	Capacitor	4	Murata	GRM188R71H102KA01D	Farnell	8819 955	10		yes	0.071	CHF	0.071	0.28
B	100uF	T492B	C18, C26	Solid Tantalum Chip Capacitor, T492 Series	2	AVX	TCJB107M004R0070	Farnell	1135 228	1		yes	0.98	CHF	0.98	1.96
C0805	4.7uF	Cap	C32, C33	Capacitor	2	Kemet	C0805C475K4PAC	Farnell	9227 849	10		yes	0.508	CHF	0.508	1.02
C0805	4.7pF 0603	Cap	C34	Capacitor	1	AVX	06032U4R7CAT2A	Farnell	7568 258	5		yes	0.45	CHF	0.45	0.45
sod-123	MBR0520	SCHOTTKY_MBI	D1		1	ON Semi	MBR0520LT1G	Farnell	9556 915	1		yes	0.561	CHF	0.561	0.56
HSMC-C110	side led red	LED-HSM*-C110	D2	LED	1	Avago	HSMC-C110	Farnell	8554 498	5		yes	0.288	CHF	0.288	0.29
HSMC-C110	side led yellow	LED-HSM*-C110	D3	LED	1	Avago	HSMA-C110	Farnell	8554 455	5		yes	0.577	CHF	0.577	0.58
MBRS340	MBRS340TR	shotky-mbrs340	D4		1	Vishay	MBRS340TRPBF	Farnell	1463 234	1		yes	0.617	CHF	0.617	0.62
HSMC-C110	side led green	LED-HSM*-C110	D5	LED	1	Avago	HSMQ-C110	Farnell	8554 692	5		yes	1.8	CHF	1.8	1.80
BAT54C	BAT54C	BAT54C	D6		1	ST	BAT54CFILM	Farnell	1261 334	1	2 Weeks	yes	0.13	CHF	0.13	0.13
MBRS1100T3	10BQ030	D Schottky	D7	Schottky Diode	1	Vishay	10BQ030PBF	Farnell	9100 687	1		yes	0.42	CHF	0.42	0.42
Roue		ROUE	J1		1										0.000	0.00
New connecto	Header 2x3.smt	NEW CONNECT	Jp1, Jp2		2	AMP	1241050-3	Farnell	9689 567	1		yes	1.5	CHF	1.5	3.00
Mini power Ja	DC8	MINI POWER JA	JP3	Mini Power Jack	1	CLIFF ELECTRF	DC8	Farnell	224 947	10		yes	1.855	CHF	1.855	1.86
USB_MINI_B	miniUSB-smt	USB-MINIB-SMT	JP4		1	Lumberg	2486 01	Farnell	1243 250	1		yes	2.55	CHF	2.55	2.55
amp_FH_8mm	fh-60r-13mm	AMP-FH-60-REQ	JP5	AMP Free Height System, 0.8mm, 60 Pin, 9	1	AMP	5-5179010-2	Farnell	1098 357	1		yes	3.85	CHF	3.85	3.85
M20-7890546	M20-7890546	M20-7890546	JP6		1	HARWIN	M20-7890546	Farnell	7992 076	10		yes	1.45	CHF	1.45	1.45
B82472G4222	2.2uH DR73	COIL-DR-SERIE	L1, L2	DR Series Coils from Coiltronics	2	Cooper Busm	DR73-2R2	Farnell	1463 507	1		yes	2	CHF	2	4.00
CAPC1210L	2.2uH 1210	COIL-LQH	L3	Inductance	1	Murata	LQH32CN2R2M33L	Farnell	9522 182	5		yes	0.357	CHF	0.357	0.36
1608[0603]	10k 0603	RES	R1, R2, R3, R4	Resistance	4	Multicomp	MC 0.063W 0603 1% 10K	Farnell	9330 399	50		X-yes	0.062	CHF	0.062	0.25
1608[0603]	150R 0603	RES	R5, R13, R24, R31, R35	Resistance	5	Multicomp	MC 0.063W 0603 1% 150R	Farnell	9330 593	50		X-yes	0.062	CHF	0.062	0.31
1608[0603]	100k 0603	RES	R6, R10, R14, R18	Resistance	4	Multicomp	MC 0.063W 0603 1% 100k	Farnell	9330 402	50		X-yes	0.062	CHF	0.062	0.25
1608[0603]	2k 0603	RES	R7	Resistance	1	Multicomp	MC 0.063W 0603 1% 2K	Farnell	9330 763	50		X-yes	0.062	CHF	0.062	0.06
1608[0603]	1M 0603	RES	R8, R37	Resistance	2	Multicomp	MC 0.063W 0603 1% 1M	Farnell	9330 410	50		X-yes	0.062	CHF	0.062	0.12
1608[0603]	1k 0603	RES	R9	Resistance	1	Multicomp	MC 0.063W 0603 1% 1K	Farnell	9330 380	50		X-yes	0.062	CHF	0.062	0.06
1608[0603]	150k 0603	RES	R11, R20, R28	Resistance	3	Multicomp	MC 0.063W 0603 1% 150k	Farnell	9330 623	50		X-yes	0.034	CHF	0.034	0.10
1608[0603]	120k 0603	RES	R12	Resistance	1	Multicomp	MC 0.063W 0603 1% 120k	Farnell	9330 526	50		X-yes	0.062	CHF	0.062	0.06
1608[0603]	680k 0603	RES	R15	Resistance	1	Multicomp	MC 0.063W 0603 1% 680k	Farnell	9331 476	50		X-yes	0.062	CHF	0.062	0.06
1608[0603]	10R 0603	RES	R16, R25	Resistance	2	Multicomp	MC 0.063W 0603 1% 10R	Farnell	9330 429	50		X-yes	0.062	CHF	0.062	0.12

1608[0603]	470k 0603	RES	R17, R26	Resistance	2	Multicomp	MC 0.063W 0603 1% 470H	Farnell	9331 263	50		X-yes	0.034	CHF	0.034	0.07
1608[0603]	7.5k 0603	RES	R19, R27	Resistance	2	Multicomp	MC 0.063W 0603 1% 7K5	Farnell	9331 514	50		X-yes	0.062	CHF	0.062	0.12
1608[0603]	137k 0603	RES	R21, R29	Resistance	2	Multicomp	MC 0.063W 0603 1% 137H	Farnell	1170 999	50		X-yes	0.034	CHF	0.034	0.07
1608[0603]	2.2M 0603	RES	R22, R30	Resistance	2	PHYCOMP	232270462205	Farnell	9238 883	50		yes	0.122	CHF	0.122	0.24
1608[0603]	1.8k 0603	RES	R23, R32, R36, R39, R40	Resistance	5	Multicomp	MC 0.063W 0603 1% 1K8	Farnell	9330 712	50		X-yes	0.062	CHF	0.062	0.31
1608[0603]	3.3M 0603	RES	R33, R34	Resistance	2	PHYCOMP	232270463305	Farnell	9238 905	50		yes	0.122	CHF	0.122	0.24
1608[0603]	330k 0603	RES	R38	Resistance	1	Multicomp	MC 0.063W 0603 1% 330H	Farnell	9331 042	50		X-yes	0.062	CHF	0.062	0.06
switch_mms2	MMS 238 T	switch-mms238T	S1		1	KNITTER	MMS 238 T	Farnell	8546 827	1		yes	3.35	CHF	3.35	3.35
TCND5000	TCND5000	TCND5000	Sensor1, Sensor2		2	Vishay	TCND5000	Farnell	9169 997	1	2 Weeks	yes	3.3	CHF	3.3	6.60
TSSOP-8	IRF7705	IRF7705	T1, T2	HEXFET Power MOSFET	2	IRF	IRF7705TRPBF	Farnell	1298 533	1		yes	3.65	CHF	3.65	7.30
SOT-23	BSS670	MOSFET-N	T3, T4, T5, T6		4	Infineon	BSS670S2L	Farnell	1095 673	5		yes	0.35	CHF	0.35	1.40
Si9986	Si9986	Si9986	U1, U2	Si9986	2	Vishay	SI9986DY-T1-E3	Farnell	1199 224	1	2 Weeks	yes	6.6	CHF	6.6	13.20
LTC4075	LTC4075	LTC4075	U3		1	Linear	LTC4075EDD#PBF	Linear online	LTC4075EDD#PBF	1	2 Weeks	yes	2.67	\$	2.804	2.80
LMV331	LMV321DBVR	LMV321	U4	Op. Amp.	1	TI	LMV321DBVR	Farnell	1105 935	1		yes	0.863	CHF	0.863	0.86
LCT3412A_NEW	LTC3412AEFE	LTC3412A_NEW	U5, U7		2	Linear	LTC3412AEFE#PBF	Linear online	LTC3412AEFE#PBF	2	2 Weeks	yes	4.93	\$	5.177	10.35
MAX5467	LTC4412	LTC4412	U6		1	Linear	LTC4412ES6#PBF	Linear online	LTC4412ES6#PBF	2	2 Weeks	yes	1.93	\$	2.027	2.03
SO-G14	74HC74D	74HC74	U8		1	TI	SN74HC74D	Farnell	9591 680	1		yes	0.632	CHF	0.632	0.63
LM2703	LM2703	LM2703	U9		1	National	LM2703MF-ADJ	Farnell	9779 442	1		yes	4	CHF	4	4.00
					Total Number of parts				110				Total in CHF		105.61	
Approved		Notes														