

Pos.	Qtà	Rif	Descrizione	Value	PN Costruttore	PN Fornitore	Costruttore
1	2	C5,C55	Cond.Multilayer X7R, 50V 1210	2u2F	C1210C225K5RACTU	80-C1210C225K5R	KEMET
2	15	C6,C7,C12,C39,C41,C42,C43,C44,C45,C47,C48,C49,C52,C53,C57	MLCC - SMD/SMT 50V 0.1uF X7R 0603 10%	100nF	C0603C104K5RACTU	80-C0603C104K5R	KEMET
3	6	C8,C9,C10,C11,C54,C56	Cond.Elt.Tantalo 35V SIZE C	4u7	T491C475K035AT	80-T491C475K035AH	KEMET
4	2	C13,C22	MLCC - SMD/SMT 50V 0.01uF X7R 0603 5%	10nF	C0603C103J5RACTU	80-C0603C103J5R	
5	18	C14,C19,C20,C24,C26,C28,C30,C31,C32,C33,C34,C35,C36,C37,C38,C50,C51,C58	MLCC - SMD/SMT 50V 0.1uF X7R 0603 10%	100nF	C0603C104K5RACTU	80-C0603C104K5R	
6	1	C15	Film Capacitors 10uF 600V 5% PITCH 27.5 W=18	10uF	MKP1848C61060JK2	75-MKP1848C61060JK2	VISHAY
7	2	C16,C17	Elettrolitico con terminali M5 a vite VDCMAX=600V	1000uF	AG(U)X102M600BC1	AG(U)X102M600BC1	ITELCOND
8	1	C21	Cond.Elettrolitico verticale d=10 25VDC	1000uF	ESK108M025AH4EA	80-ESK108M025AH4EA	KEMET
9	4	C23,C25,C27,C29	MLCC - SMD/SMT 35V 4u7F X7R 1206 10%	4u7	C1206C475K6RACTU	80-C1206C475K6R	
10	1	C40	MLCC - SMD/SMT 10V 10uF X7R 0805 10%	10uF	C0805C106K8RACTU	80-C0603C104K5R	KEMET
11	1	C46	MLCC - SMD/SMT 35V 4u7F X7R 1206 10%	4u7	C1206C475K6RACTU	80-C1206C475K6R	KEMET
12	3	DL2,DL3,DL12	Diodo led smd 0805	VERDE	KP-2012SGD	604-AP2012SGD3	KINGBRIGHT
13	1	DL4	Diodo led smd 0805	ORANGE	APT2012NW	604-APT2012NW	KINGBRIGHT
14	1	DL5	Diodo led smd 0805	BLU	KP-2012PBC	RS 466-3784	KINGBRIGHT
15	5	DL6,DL8,DL9,DL10,DL11	Diodo led smd 0805	GIALLO	KP-2012YD	FA 2449812	KINGBRIGHT
16	1	DL7	Diodo led smd 0805	ROSSO	APTD2012LSURCK	604-APTD2012LSURCK	KINGBRIGHT
17	2	D2,D3	Silicon Carbide (SiC) Schottky Diodes	NDSH50120C	NDSH50120C	863-NDSH50120C	
18	1	D4	Fast-speed switching diodes	1N4148WT	1N4148WT	512-1N4148WT	ON
19	1	D5	ESD Protection compatible with CAN BUS	ESD2CAN24DBZRQ1	ESD2CAN24DBZRQ1	595-ESD2CAN24DBZRQ1	
20	1	D6	Schottky Diodes & Rectifiers 100V 2A	PMEG100T20ELXD-QX	PMEG100T20ELXD-QX	M: 771-	NEXPERIA
21	2	E1,E2		E			
22	1	J1	MORSETTIERA 4 POSTI PITCH 12.7	389690002	389690002	538-38969-0002	
23	1	J2	CONN.HEADER 2X1 DRITTO P. 3.96 SERIE MTA	10321021-MOLEX	3-641208-2	571-3-641208-2	
24	1	J3	Molex Minifit 2x1	46999-0138-MOLEX	46999-0138	538-46999-0138	Molex
25	1	J4	CONN.HEADER 2X1 DRITTO P2	NANO-FIT 105311-1102	105311-1102	538-105311-1102	MOLEX
26	1	J5	MORSETTIERA 4 POSTI PITCH 12.7	MOLEX - 38969-0004	38969-0004	538-38969-0004	
27	1	J6	Header boxed IDC dritto 2 X 3 P.2.54	61200621621	61200621621	710-61200621621	WURTH
28	2	J9,J10	CONN.HEADER 2X5 DRITTO P2	NANO-FIT 105310-2108	105310-2108	M: 538-105310-2108	MOLEX
29	1	J11	Serie TE-CT 2 posizioni verticale PTH	292161-2	292161-2	571-2921612	TE
30	1	L1	Induttore 8.2uH	8.2uH	SRR4528A-8R2Y	652-SRR4528A-8R2Y	BOURNS
31	1	L2		INDUCTOR_IN			
32	2	L3,L4	Ferrite Bead	BLM18BD102	BLM18BD102SN1D	81-BLM18BD102SN1D	MURATA
33	1	OP1	Precision Amplifiers 1x uP Zero-Drift Op Amps	LTC2054HS5TRMPBF	LTC2054HS5TRMPBF	584-LTC2054HS5TRMPBF	
34	2	OP2,OP3	High Speed Comparator	MAX999AAUK+T	MAX999AAUK+T	700-MAX999AAUKT	
35	12	Q1,Q11,Q13,Q14,Q15,Q16,Q17,Q18,Q19,Q20,Q21,Q22	MOSFETs FET 60V 7.5 MOHM SOT23	2N7002L	2N7002L	512-2N7002L	
36	1	Q2	MOSFETs 800V Vds 30V Vgs DPAK (TO-252)	SIHD2N80E-GE3	SIHD2N80E-GE3	78-SIHD2N80E-GE3	
37	8	Q3,Q4,Q5,Q6,Q7,Q8,Q9,Q10	SiC MOSFETs CoolSiC MOSFET discrete 1200V, 17 mohm G2	IMZC120R017M2HXKSA1	IMZC120R017M2HXKSA1	726-IMZC120R017M2HXK	
38	1	Q23	MOSFET CANALE N	2N7002L	2N7002L	512-2N7002L	ON
39	1	Q24	MOSFET CANALE N	IRLL014NTRPBF	IRLL014NTRPBF	M: 942-IRLL014NTRPBF	Infineon
40	1	RL1	General Purpose Relays 1 form A w/ 5VDC Coil-standard type	G6DN-1A-L DC5	G6DN-1A-L DC5	653-G6DN-1A-LDC5	
41	3	R4,R5,R12	Resistore thick film 1/8W 1% 1206	0R	VARI		VARI
42	1	R6	Resistore thick film 1/8W 1% 0603	3K3	VARI		VARI

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43	5	R7,R11,R28,R29,R52	Resistore thick film 1/8W 1% 0603	1K	VARI		VARI
44	16	R8,R55,R56,R57,R58,R59,R60,R61,R62,R63,R64,R65,R66,R67,R68,R77	Resistore thick film 1/8W 1% 0603	680R	VARI		VARI
45	3	R9,R24,R25	HV 350V	510K	KTR25JZPF5103	M:755-KTR25JZPF5103	ROHM Semiconductor
46	3	R10,R26,R27	HV 350V	470K	KTR25JZPF4703	M:755-KTR25JZPF4703	ROHM Semiconductor
47	1	R13	Resistore thick film 1/8W 1% 1206	0R Non Montare	VARI		VARI
48	1	R14	Resistore thick film 1/8W 1% 0603	8K7	VARI		VARI
49	3	R15,R34,R54	Resistore thick film 1/8W 1% 0603	330R	VARI		VARI
50	2	R16,R19	5W, 500V	4K7	RSF5SSJT-73-4K7	603-RSF5SSJT-73-4K7	YAGEO
51	10	R17,R18,R41,R44,R48,R53,R70,R71,R78,R79	Resistore thick film 1/8W 1% 0603	10k	VARI		VARI
52	2	R20,R69	Resistore thick film 1/8W 1% 0603	2K2	VARI		VARI
53	3	R21,R22,R46	Resistore thick film 1/8W 1% 0603	4K7	VARI		VARI
54	3	R23,R39,R47	Resistore thick film 1/8W 1% 0603	20K	VARI		VARI
55	1	R30	Resistore thick film 1/4W 1% 0603	4K7	VARI		VARI
56	1	R31	Resistore thick film 1/4W 1% 0603	37K	VARI		VARI
57	1	R32	Resistore thick film 1/4W 1% 0603	100R	VARI		VARI
58	2	R33,R50	Resistore thick film 1/8W 1% 0603	0R	VARI		VARI
59	3	R35,R37,R51	Resistore thick film 1/8W 1% 0603	0R - Non Montare	VARI		VARI
60	5	R36,R38,R40,R42,R72	0.1%, 10ppm	10K	RN73H1JTTD1002B10	660-RN73H1JTD1002B10	KOA
61	1	R43	Resistore thick film 1/8W 1% 0603	100R	VARI		VARI
62	1	R73	0.1%, 10ppm	7K77	RN73H1JTTD7771B25	660-RN73H1JTD7771B25	KOA
63	1	R74	Resistore thick film 1/8W 1% 0603	33R	VARI		VARI
64	1	R75	Resistore thick film 1/8W 1% 0603	120R	VARI		VARI
65	1	R76	Resistore thick film 1/8W 1% 0603	5K7	VARI		VARI
66	8	TP1,TP2,TP3,TP4,TP5,TP6,TP7,TP8	Torretta x Test Point foro pcb 1mm	20-2137	20-2137	FA 8731128	VERO
67	2	TVS1,TVS2	Surface-Mount TRANSZORB® Transient Voltage Suppressors	SMBJ3V3-E3/5B	SMBJ3V3-E3/5B	M:625-SMBJ3V3-E3/5B	
68	1	U4	AC/DC Power Modules 15V 0.33A 4.95W 85-264Vin Encap PS	IRM-05-15	IRM-05-15	709-IRM05-15	
69	1	U5	Non-Isolated DC/DC Converters DC/DC Converter non-isolated	TSR 0.5-2450	TSR 0.5-2450	495-TSR0.5-2450	TRACO POWER
70	1	U6	3.3VDC LDO	NCP1117ST33T3G	NCP1117ST33T3G	NCP1117ST33T3G	ON
71	2	U7,U9	Rele' stato solido 60Vdc 0.1A	CPC1017N	CPC1017N	849-CPC1017N	CLARE
72	1	U8	Board Mount Current Sensors 80ARMS 500kHz Hall-effect current sensor	TMCS1126A1BQDVGR	TMCS1126A1BQDVGR	595-TMCS1126A1BQDVGR	
73	4	U10,U11,U12,U13	Gate Drivers High Speed, Dual, 4A Driver	ADP3654ARDZ	ADP3654ARDZ	584-ADP3654ARDZ	
74	1	U14	Board Mount Current Sensors 80ARMS 500kHz Hall-effect current sensor	TMCS1126A1BQDVGR	TMCS1126A1BQDVGR	595-TMCS1126A1BQDVGR	
75	1	U15	Counter ICs Johnson decade counter with 10 decoded outputs	74HC4017PW,118	74HC4017PW,118	771-HC4017PW118	
76	2	U16,U17	Logic Gates Quad 2-Input Positive-AND Gates	SN74HCT08DR	SN74HCT08ANSR	595-SN74HCT08ANSR	
77	1	U18	32bit ARM 4F 1MB Flash, 256K Ram, 2xCAN-FD	SAME51J20A-A	SAME51J20A-A	SAME51J20A-A	MICROCHIP
78	1	U19	Sensore di temperatura	TC74A0-3.3VAT	TC74A0-3.3VAT	579-TC74A0-3.3VAT	MICROCHIP
79	1	U20	Digital Isolators Reinforced, fast, low-power 2-channel di	MAX22246CAWA/V+	MAX22246CAWA/V+	700-MAX22246CAWA/V+	
80	1	U21	CAN Interface IC High-speed CAN transceiver	TJA1050T/CM,118	TJA1050T/CM,118	771-TJA1050T/CM118	NXP

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81	1	U22	Linear Voltage Regulators 3-Term Pos Vreg 30V 100mA 350mW	NJM78L05UA-TE1	NJM78L05UA-TE1	513-NJM78L05UA-TE1	
82	1	U23	Optoisolatore 5300VRMS singolo	VO615C-2X019T	VO615C-2X019T	78-VO615C-2X019T1	VISHAY
83	2	RAD1,RAD2	HEATSINK TO-247 TO-264 TO-220 OMNIKLIP	OMNI-UNI-40-75-D	OMNI-UNI-40-75-D	DK- 345-1578-ND	WAKEFIELD-VETTE
84	1	RAD3	HEATSINK TO-247 TO-264 TO-220 OMNIKLIP	OMNI-UNI-40-25-D	OMNI-UNI-40-25-D	DK- 345-1576-ND	WAKEFIELD-VETTE
85	10		Universal Clip for OmniKlip Heat Sink TO247	OMNI-UC	OMNI-UC	DK- 345-1493-ND	WAKEFIELD-VETTE
86	1		Clip for OmniKlip Heat Sink TO220	OMNI-220C	OMNI-220C	DK- 345-1494-ND	WAKEFIELD-VETTE