

Comment	Description	Designator	Footprint	LibRef	Quantity	Board	RS VPN	Farnell VPN	Mouser VPN	PCDIGA VPN	price	price total
C 10nF 0805 MLCC 50V X7R	Capacitores de cerâmica multicamada MLCC - SMD/SMT 10nF 50V X7R 10%	C19, C20, C21, C22	CAPC_0805	Capacitor SMD	4	inversor			603-CC805KRX7R9BB103		0,099	0,40 €
C 10nF 0805 MLCC 50V X7R	Capacitores de cerâmica multicamada MLCC - SMD/SMT 10nF 50V X7R 10%	C4, C11, C14	CAPC_0805	Capacitor SMD	3	controlo			603-CC805KRX7R9BB103		0,099	0,30 €
C 10uF 0805 MLCC 25V X5R	Capacitores de cerâmica multicamada MLCC - SMD/SMT 10uF 25V X5R +/-10% 0805 Gen Purp	C1, C2, C3, C18, C23, C26, C29	CAPC_0805	Capacitor SMD	7	inversor			963-TMK212BBJ106KG-T		0,162	1,13 €
C 10uF 0805 MLCC 25V X5R	Capacitores de cerâmica multicamada MLCC - SMD/SMT 10uF 25V X5R +/-10% 0805 Gen Purp	C1, C2, C5, C6, C7, C8, C9, C12, C15	CAPC_0805	Capacitor SMD	9	controlo			963-TMK212BBJ106KG-T		0,162	1,46 €
C 10uF 1206 MLCC 50V X5R	Capacitores de cerâmica multicamada MLCC - SMD/SMT 1206 50V 10uF 20% X5R	C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12	CAPC_1206	Capacitor SMD	12	middlePCB			963-UMK316BBJ106ML-T		0,31	3,72 €
C 10uF 2917 TANT 50V	Condensadores de tântalo - revestimento sólido de SMD 50V 10uF 10% ESR=0.8Ohms	C4, C5, C6, C7, C8, C9, C16, C17, C24	CAPC_2917	tantalum_CAP	9	inversor			80-T491D106K050AT		1,58	14,22 €
C 1nF 0805 MLCC 50V X7R	Capacitores de cerâmica multicamada MLCC - SMD/SMT WCAP-CSGP 1000pF 0805 10% 50V MLCC	C10, C11, C12, C13, C14, C15	CAPC_0805	Capacitor SMD	6	inversor			710-885012207086		0,08	0,48 €
C 1uF 0805 MLCC 50V X5R	Capacitores de cerâmica multicamada MLCC - SMD/SMT 0805 50V 1uF 20% X5R	C3, C10, C13	CAPC_0805	Capacitor SMD	3	controlo			963-UMK212BJ105MG-T		0,153	0,46 €
C 470nF PPCap TH 630V	B32653A6474K000 - DC Film Capacitor, 0.47 µF, 630 V, Metallized PP, ± 10%, B32653 Series	C_bus5	Snubber_cap_0.47uF	CAPACITOR_dcbus	1	inversor		9751343			2,18	2,18 €
C 470uF EleCap TH 450V	Capacitores eletrolíticos de alumínio - terminal de pressão 450V 470uF 20% Tol.	C_bus1, C_bus2, C_bus3, C_bus4	Capacitor_DCBUS	CAPACITOR_dcbus	4	inversor			661-ESMR451N471MR40S		6,28	25,12 €
C1uF 0805 MLCC 50V X5R	Capacitores de cerâmica multicamada MLCC - SMD/SMT 0805 50V 1uF 20% X5R	C25, C27, C28	CAPC_0805	Capacitor SMD	3	inversor			963-UMK212BJ105MG-T		0,153	0,46 €
IC Amplso BIPOl AMC1200	Amplificadores de isolamento 4kV peak Iso Amp	U5, U8, U9	SOIC8	AMC1200	3	controlo			595-AMC1200BDWVR		4,62	13,86 €
IC Amplso UNI AMC1311	Amplificadores de isolamento A 595-AMC1311DWV	U4, U5	AMC1311 - SOIC8	AMC1311	2	inversor			595-AMC1311DWVR		5,55	11,10 €
IC CC 30A SO-8	Sensores de Corrente de Montagem de Pannel Hall Effect IC LF 30A 66 mV/A	CC1, CC2, CC3	CC6303_SOP8	Current_Sensor_cc6303	3	inversor			630-ACHS-7123-000E		3,47	10,41 €
IC CC/CC 1W 5V	Conversores CC/CC com isolamento 1W 5Vin 5Vout 200mA SIP7	U3	DC/DC_ISO	DC/DC_ISO	1	inversor			919-RFB-0505S		1,4	1,40 €
IC CC/CC 1W 5V	Conversores CC/CC com isolamento 1W 5Vin 5Vout 200mA SIP7	U3, U6, U7	DC/DC_ISO	DC/DC_ISO	3	controlo			919-RFB-0505S		1,4	4,20 €
IC DC/DC 12V	Conversores CC/CC sem isolamento 15-36Vin 12Vout 1.0A VSIP Encapsulated	U7	DC/DC - OKI-78SR-E	DC/DC - R-78E3.3	1	middlePCB			580-OKI78SR12/1W36EC		5,31	5,31 €
IC DC/DC 15V ISO	Conversores CC/CC com isolamento 6W 18-36Vin 15Vout 400mA DIP24 Iso	U1	MeanWell SCWNo6	MEANWELL - SCWN06	1	middlePCB			709-SCWNo6B-15		8,26	8,26 €
IC DC/DC 3V3	Conversores CC/CC sem isolamento 3.3V 500MA OUT THRU	U2	DC/DC - R-78E3.3	DC/DC - R-78E3.3	1	middlePCB			919-R-78E3.3-0.5		2,43	2,43 €
IC DC/DC 5V	Conversores CC/CC sem isolamento 7-36Vin 5Vout 1.5A VSIP Encapsulated	U3, U4	DC/DC - OKI-78SR-E	DC/DC - R-78E3.3	2	middlePCB			580-OK78SR5/1.5W36EC		5,31	10,62 €
IC DIO generic	Diodos - Fins gerais, energia, comutação Hi Conductance Fast	D1, D2, D3	Diode_th	Diode	3	inversor			512-1N4148TR		0,09	0,27 €
IC Driver 5A Dual ENA IX4340	Drivers de portas Dual 5A Gate Driver IC	U5, U8, U10	SOIC-MIC4126	Driver - IX4340	3	middlePCB			747-IX4340NETR		0,891	2,67 €
IC DUAL MOS DRIVER MIC4126	Drivers de portas 1.5A Dual High Speed MOSFET Driver with Low Thermal Impedance	U12	SOIC-MIC4126	MOS_DRIVER-MIC4126	1	middlePCB			998-MIC4126YME		0,756	0,76 €
IC IGBT IPM IKCM30F60GA	Controladores e drivers de Motor/Movimento/Ignição IFPS MODULES	U2	ikcm30f60ga	IKCM30F60GA	1	inversor			726-IKCM30F60GDXKMA1		16,25	16,25 €
IC ISO SI8660	Isoladores digitais 1 kV 6-channel digital isolator	U6, U9	SOIC127P610X155-16N	ISO SI8660	2	middlePCB			634-SI8660BA-B-IS1		1,82	3,64 €
IC LED 1206	LEDs padrão - SMD GREEN WATER CLEAR	D1, D2, D3, D4	DIODE_1206	LED	4	middlePCB			604-APT3216SGC		0,387	1,55 €
IC NAND HEF4011	Portas lógicas QUADRUPL 2-INPUT NAND GATE	U1, U2, U4	SOIC-14N	HEF4011	3	controlo			771-HEF4011BTD-T		0,296	0,89 €
IC Relay 5A 5V 5x20mm	Relés para uso geral 1 form A w/ 5VDC Coil-standard type	U11, U13	Relay - G6DN	Relay - G6DN	2	middlePCB			653-G6DN-1A-LDC5		1,59	3,18 €
IC XMC4500 Relax LITE	KIT_XMC45_RELAX_LITE_V1 - Evaluation Board, XMC4500 MCU, Detachable On-Board Debugger, USB Powered "	XMC1	XMC4500	XMC4500	1	controlo	251-8418	2443552			14,628	14,63 €
IND RLS-126	Indutores fixos Line Inductors for RECOM Power Supply	L1, L2, L3, L4	Inductor - RLS-126	Inductor	4	middlePCB			919-RLS-126		0,549	2,20 €
olhal		+VDC2, -VDC2	Olhal	olhal	2	inversor					0,00 €	0,00 €
P 2p 5mm	Bloques de terminales de PCB de perfil estándar RS de 5,0 mm	+VDC1, -VDC1, U1, V1, W1	connector1x2_parafuso	gen_purpose_conn_1x2	5	inversor					0,24	1,20 €
P 2p 5mm	Bloques de terminales de PCB de perfil estándar RS de 5,0 mm	1, Input L-N1, K1, K2	connector1x2_parafuso	gen_purpose_conn_1x2	4	middlePCB	896-6696				0,24	0,96 €
P 2p 5mm	Bloques de terminales de PCB de perfil estándar RS de 5,0 mm	P7, P8, P9	connector1x2_parafuso	gen_purpose_conn_1x2	3	controlo	896-6696				0,24	0,72 €
P 4p 2.54 MOL FAN	Distribuidores e Alojamento de Fios 4 PIN HEADER WITH FR R WITH FRICTION LOCK	P12	HEADER 4p molex	Header 4p molex	1	middlePCB			538-47053-3000		0,405	0,41 €
P 8p 2.54 SR DW 3P	Distribuidores e Alojamento de Fios CGrid Hrd SRDW THo le 8ckt	P1, P2, P3, P4, P5, P6, P7, P8	MOLEX_3p_105431_1103	Header 3	8	inversor			538-87937-0800		0,621	4,97 €
P 8p 2.54 SR DW 3P	Distribuidores e Alojamento de Fios CGrid Hrd SRDW THo le 8ckt	P1, P2, P3, P4, P5, P6, P7, P8	MOLEX_3p_105431_1103	Header 3	8	middlePCB			538-87937-0800		0,621	4,97 €
P 8p 2.54 SR DW 8P	Distribuidores e Alojamento de Fios CGrid Hrd SRDW THo le 8ckt	P9, P10, P11, P13	Header 8x1 8.5mm	jumper_8p	4	middlePCB			538-87937-0800		0,621	2,48 €
P 8p 2.54 SR DW 8P	Distribuidores e Alojamento de Fios CGrid Hrd SRDW THo le 8ckt	P1, P2, P3, P4, P5, P6	Header 8x1 8.5mm	jumper_8p	6	controlo			538-87937-0800		0,621	3,73 €
R 0 1/8W 0805	Resistores de Filme Espesso - SMD 1/8Watt 0ohms Commercial Use	R15	RESC_0805	Resistor	1	inversor			71-CRCW08050000Z0EAC		0,09	0,09 €
R 0 1/8W 0805	Resistores de Filme Espesso - SMD 1/8Watt 0ohms Commercial Use	R6, R7, R8, R9, R11	RESC_0805	Resistor	5	middlePCB			71-CRCW08050000Z0EAC		0,09	0,45 €
R 0 1/8W 0805	Resistores de Filme Espesso - SMD 1/8Watt 0ohms Commercial Use	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11, R12, R13, R17, R31, R39, R45	RESC_0805	Resistor	17	controlo			71-CRCW08050000Z0EAC		0,09	1,53 €
R 0039 3W 6432 1%	MCLRPT2FTWRR039 - SMD Current Sense Resistor, 0.039 ohm, LRP Series, 2512 [6432 Metric], 3 W, ± 1%, Metal Strip	R7, R8, R9	RESC6432X09M	Resistor	3	inversor		2828259			0,271	0,81 €
R 10 1/8W 0805 1%	Resistores de Filme Espesso - SMD 1/8Watt 10ohms 1% Commercial Use	R5, R10	RESC_0805	Resistor	2	middlePCB			71-CRCW080510R0FKEAC		0,09	0,18 €
R 100 1/8W 0805 1%	Resistores de Filme Espesso - SMD 1/8Watt 100ohms 1% Commercial Use	R1, R2, R3, R4, R5, R6, R10, R12, R13	RESC_0805	Resistor	9	inversor			71-CRCW0805100RfKEAC		0,09	0,81 €
R 100k 1/8W 0805 .1%	Resistores de Filme Fino - SMD 100 Kohm .1% 0805 25PPM	R34, R35, R36, R37, R38, R40, R41, R42, R43, R44, R50, R51, R52, R53, R54, R55, R56, R57, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69	RESC_0805	Resistor	30	controlo			284-APC0805B100KN		0,126	3,78 €
R 150 1/8W 0805 1%	Resistores de Filme Espesso - SMD 1/8watt 150ohms 1% 100ppm	R1	RESC_0805	Resistor	1	middlePCB			71-CRCW0805-150-E3		0,09	0,09 €
R 150R 1/8W 0805 1%	Resistores de Filme Espesso - SMD 1/8watt 150ohms 1% 100ppm	R25	RESC_0805	Resistor	1	inversor			71-CRCW0805-150-E3		0,09	0,09 €
R 1k2 1/8 0805 1%	Resistores de Filme Espesso - SMD 1/8watt 1.2Kohms 1%	R4	RESC_0805	Resistor	1	middlePCB			71-CRCW08051K20FKEA		0,09	0,09 €

R 1k8 1/8W 0805 1%	Resistores de Filme Espesso - SMD ResA-AS 0805 1k8 1% 125mW TC100	R11	RESC_0805	Resistor		1	inversor			652-CR0805AFX1801EAS		0,09	0,09 €
R 2k7 1/8 0805 1%	Resistores de Filme Espesso - SMD 1/8watt 2.7Kohms 1% 100ppm	R2	RESC_0805	Resistor		1	middlePCB			71-CRCW0805-2.7K-E3		0,09	0,09 €
R 30k 1/8W 0805 1%	Resistores de Filme Espesso - SMD 0805 30Kohms 1% AEC-Q200	R20, R21, R22, R23, R26, R27, R28, R29, R30, R31, R32, R33	RESC_0805	Resistor		12	inversor			667-ERJ-6ENF3002V		0,09	1,08 €
R 330 1/8 0805 .1%	Resistores de Filme Fino - SMD CPF 0805 330R 0.1% 25PPM 1K RL	R32, R46, R47	RESC_0805	Resistor		3	controlelo			279-CPF0805B330RE1		0,126	0,38 €
R 330 1/8 0805 1%	Resistores de Filme Espesso - SMD 1/8Watt 330ohms 1% Commercial Use	R19, R24	RESC_0805	Resistor		2	inversor			71-CRCW0805330RFKEAC		0,09	0,18 €
R 330 1/8 0805 1%	Resistores de Filme Espesso - SMD 1/8Watt 330ohms 1% Commercial Use	R3	RESC_0805	Resistor		1	middlePCB			71-CRCW0805330RFKEAC		0,09	0,09 €
R 3K 1/8W 0805 1%	Resistores de Filme Espesso - SMD 1/8watt 3Kohms 1% 100ppm	R14	RESC_0805	Resistor		1	inversor			71-CRCW0805-3K-E3		0,09	0,09 €
R 3k6 1/8W 0805 .1%	Resistores de Filme Fino - SMD 1/8W 3.6K ohm .1% 25ppm	R33, R48, R49	RESC_0805	Resistor		3	controlelo			603-RTO805BRD073K6L		0,387	1,16 €
R 3k6 1/8W 0805 1%	Resistores de Filme Espesso - SMD 1/8watt 3.6Kohms 1%	R16	RESC_0805	Resistor		1	inversor			71-CRCW08053K60FKEA		0,09	0,09 €
R 49k9 1/8W 0805 1%	Resistores de Filme Espesso - SMD 1/8Watt 49.9Kohms 1% Commercial Use	R17, R18	RESC_0805	Resistor		2	inversor			71-CRCW080549K9FKEAC		0,09	0,18 €
R 5k1 1/8W 0805 .1%	Resistores de Filme Fino - SMD 0805 5.1Kohm 1/8W .1% 25ppm	R14, R15, R16, R21, R22, R23, R27, R28	RESC_0805	Resistor		8	controlelo			667-ERA-6AEBS12V		0,324	2,59 €
R 7k5 1/8W 0805 .1%	Resistores de Filme Fino - SMD 7.5K OHM .1% 25ppm	R18, R19, R20, R24, R25, R26, R29, R30	RESC_0805	Resistor		8	controlelo			66-PCF08C7.5KB		0,135	1,08 €
X COOLER H412R	Cooler CPU Cooler Master Hyper H412R	X?	COOLER	cooler		1	inversor			Cooler CPU Cooler Master Hyper H412R		22,90	22,90 €
										TOTAL			220,90 €