

Comment	Description	Quantity	Supplier	Vendor Part No	price	price total	link
C 100nF 0805 MLCC 50V X7R	Capacitores de cerâmica multicamada MLCC - SMD/SMT 50V .1uF X7R 0805 5% Tol	20	Mouser	581-08055C104J	0,162 €	3,24 €	<a href="https://pt.mouser.com/ProductDetail/AVX/08055C104JAT2A?qs=sGAEpiMZZMs0AnBnWHyRQAO9wz3NDm%2FCTr1MHv%2FJ%2FKY%3D">https://pt.mouser.com/ProductDetail/AVX/08055C104JAT2A?qs=sGAEpiMZZMs0AnBnWHyRQAO9wz3NDm%2FCTr1MHv%2FJ%2FKY%3D</a>
C 10nF 0805 MLCC 25V	Capacitores de cerâmica multicamada MLCC - SMD/SMT WCAP-CSGP 10000pF 0805 10% 25V MLCC	20	Mouser	710-885012207066	0,072 €	1,44 €	<a href="https://pt.mouser.com/ProductDetail/Wurth-Elektronik/885012207066?qs=%2Fha2pyFaduggiUC9vDyrNNUVVMdRXZCBb3tXAg3zsNLmH7IISxMCDA">https://pt.mouser.com/ProductDetail/Wurth-Elektronik/885012207066?qs=%2Fha2pyFaduggiUC9vDyrNNUVVMdRXZCBb3tXAg3zsNLmH7IISxMCDA</a>
C 15pF 0805 MLCC 50V C0G	Capacitores de cerâmica multicamada MLCC - SMD/SMT 0805 15pF 50volts C0G 1%	10	Mouser	77-VJ0805A150FXACBC	0,189 €	1,89 €	<a href="https://pt.mouser.com/ProductDetail/Vishay-Vitramon/VJ0805A150FXACW1BC?qs=%2Fha2pyFadug9wUY8mt9BCg wz%2Fs3wWLEefnDaCROHLqV0">https://pt.mouser.com/ProductDetail/Vishay-Vitramon/VJ0805A150FXACW1BC?qs=%2Fha2pyFadug9wUY8mt9BCg wz%2Fs3wWLEefnDaCROHLqV0</a>
C 1uF 0805 MLCC 50V X7R	Capacitores de cerâmica multicamada MLCC - SMD/SMT 0805 1uF 50volts X7R 10%	20	Mouser	81-GCM21BR71H105KA3L	0,167 €	3,34 €	<a href="https://pt.mouser.com/ProductDetail/Murata-Electronics/GCM21BR71H105KA03L?qs=sGAEpiMZZMs0AnBnWHyRQJmvo6K1yq%2Fer55D7IKzUA%3D">https://pt.mouser.com/ProductDetail/Murata-Electronics/GCM21BR71H105KA03L?qs=sGAEpiMZZMs0AnBnWHyRQJmvo6K1yq%2Fer55D7IKzUA%3D</a>
IC ISO1050 CAN	Isoladores digitais Iso 5V CAN Xcvr	10	Mouser	595-ISO1050DUBR	4,400 €	44,00 €	<a href="https://pt.mouser.com/ProductDetail/Texas-Instruments/ISO1050DUBR?qs=sGAEpiMZZMssyD0wnx%2FymA8Xh7mO3QDV1zsWOFQBAuc%3D">https://pt.mouser.com/ProductDetail/Texas-Instruments/ISO1050DUBR?qs=sGAEpiMZZMssyD0wnx%2FymA8Xh7mO3QDV1zsWOFQBAuc%3D</a>
IC LED 0805	LEDs padrão - SMD RED WATER CLEAR	20	Mouser	604-APT2012SRCPRV	0,144 €	2,88 €	<a href="https://pt.mouser.com/ProductDetail/Kingbright/APT2012SRCPRV?qs=%2Fha2pyFaduIdQUZtWCddh1nxXvKD7FxJDcz3%252BCwjMTjSo9VLZ0v1DA%3D%3D">https://pt.mouser.com/ProductDetail/Kingbright/APT2012SRCPRV?qs=%2Fha2pyFaduIdQUZtWCddh1nxXvKD7FxJDcz3%252BCwjMTjSo9VLZ0v1DA%3D%3D</a>
IC DC/DC 2W 5V ISSO	Conversores CC/CC com isolamento 21.6-26.4Vin 5Vout 400mA 2W Iso SIP	2	Mouser	490-PCN2-S24-S5-S	5,030 €	10,06 €	<a href="https://pt.mouser.com/ProductDetail/CUI-inc/PCN2-S24-S5-S?qs=%2Fha2pyFaduiech4HMBKH0BpFv9XE2nZQpqeydpSExOu5HYV0QB9wNmng%3D%3D">https://pt.mouser.com/ProductDetail/CUI-inc/PCN2-S24-S5-S?qs=%2Fha2pyFaduiech4HMBKH0BpFv9XE2nZQpqeydpSExOu5HYV0QB9wNmng%3D%3D</a>
IC TVS 500W 24V 2CH	Supressores de ESD / Diodos TVS 500W 24V 2 CH ESD PROT	10	Mouser	576-SM24CANB-02HTG	0,369 €	3,69 €	<a href="https://pt.mouser.com/ProductDetail/Littelfuse/SM24CANB-02HTG?qs=%2Fha2pyFaduh2GTCLsvFWPqVDwyB%2FJwe65id9WeKDbgKOCXBSTQjo2rSZIsbRON8A">https://pt.mouser.com/ProductDetail/Littelfuse/SM24CANB-02HTG?qs=%2Fha2pyFaduh2GTCLsvFWPqVDwyB%2FJwe65id9WeKDbgKOCXBSTQjo2rSZIsbRON8A</a>
IC XMC4500 Relax LITE	KIT_XMC45_RELAX_LITE_V1 - Evaluation Board, XMC4500 MCU, Detachable On-Board Debugger, USB Powered	6	Farnell	2443552	10,750 €	64,50 €	<a href="https://pt.farnell.com/infineon/kit-xmc45-relax-lite-v1/evaluation-board-cortex-m4-mcu/dp/2443552?ost=2443552&amp;ddkey=https%3Apt-PT%2FElement14%20Portugal%2Fsearch">https://pt.farnell.com/infineon/kit-xmc45-relax-lite-v1/evaluation-board-cortex-m4-mcu/dp/2443552?ost=2443552&amp;ddkey=https%3Apt-PT%2FElement14%20Portugal%2Fsearch</a>
P XMC4500	Cabezal de pines, Stelvio Kontek serie 473, Recta 80 pines 2 filas paso 2.54mm 6mm, Terminación Soldada 3mm No	12	RS	155-721	0,571 €	6,85 €	<a href="https://pt.rs-online.com/web/p/conectores-macho-para-pcb/0155721/?relevancy-data=636F3D3126696E3D4931384E525353746F636B4E756D626572266C756D656E266D6D3D6D6174">https://pt.rs-online.com/web/p/conectores-macho-para-pcb/0155721/?relevancy-data=636F3D3126696E3D4931384E525353746F636B4E756D626572266C756D656E266D6D3D6D6174</a>
P 20x2p 2.54	Distribuidores e Alojamento de Fios 20+20 DIL VERTICAL SOCKET TIN	12	Mouser	855-M20-7832046	2,760 €	33,12 €	<a href="https://pt.mouser.com/ProductDetail/Harwin/M20-7832046?qs=%2Fha2pyFaduhF0xiSTglg%252BlzGOs%252BIQOOiLCg7hgtmYd0Vc0OnCY6fAr%3D%3D">https://pt.mouser.com/ProductDetail/Harwin/M20-7832046?qs=%2Fha2pyFaduhF0xiSTglg%252BlzGOs%252BIQOOiLCg7hgtmYd0Vc0OnCY6fAr%3D%3D</a>
P RJ45 FEMALE	Conectores modulares/Conectores de Ethernet WR-MJ Feml Shielded 8P8C Horztl Tab Down	20	Mouser	710-61500814221	2,160 €	43,20 €	<a href="https://pt.mouser.com/ProductDetail/Wurth-Elektronik/61500814221?qs=%2Fha2pyFaduuj32eJSvwd9664aNGX94cCxCkKeomKjtLAj9h4o3ZKUmg%3D">https://pt.mouser.com/ProductDetail/Wurth-Elektronik/61500814221?qs=%2Fha2pyFaduuj32eJSvwd9664aNGX94cCxCkKeomKjtLAj9h4o3ZKUmg%3D</a>
P RJ45 MALE	Conectores modulares/Conectores de Ethernet RJ45 Connector	20	Mouser	530-3SP370808SM2A264	0,936 €	18,72 €	<a href="https://pt.mouser.com/ProductDetail/Stewart-Connector-Bel/943-SP-370808SM2-A264?qs=%2Fha2pyFadugTSnrFvVynDqL6xgMcT4C5JidbRb4awYMo%2FAWZTAA27%252BEJ%2FI%252">https://pt.mouser.com/ProductDetail/Stewart-Connector-Bel/943-SP-370808SM2-A264?qs=%2Fha2pyFadugTSnrFvVynDqL6xgMcT4C5JidbRb4awYMo%2FAWZTAA27%252BEJ%2FI%252</a>
R 220 1/4W 0805 5%	Resistores de Filme Espesso - SMD 220 OHM 5%	10	Mouser	660-RK73B2ATDD221J	0,020 €	0,20 €	<a href="https://pt.mouser.com/ProductDetail/KOA-Speer/RK73B2ATDD221J?qs=%2Fha2pyFaduJLLpodnepgtz5LwoXlIsk3oK5ctQTnN896Ij83GgF9Eg%3D%3D">https://pt.mouser.com/ProductDetail/KOA-Speer/RK73B2ATDD221J?qs=%2Fha2pyFaduJLLpodnepgtz5LwoXlIsk3oK5ctQTnN896Ij83GgF9Eg%3D%3D</a>
R 330 1/8 0805 .1%	Resistores de Filme Fino - SMD CPF 0805 330R 0.1% 25PPM 1K RL	20	Mouser	279-CPF0805B330RE1	0,126	2,52 €	<a href="https://pt.mouser.com/ProductDetail/TE-Connectivity-Neohm/CPF0805B330RE1?qs=%2Fha2pyFaduh7n2qugHI0eBh%252BDv%2FoDD%2FbToyexee8ey7TK2">https://pt.mouser.com/ProductDetail/TE-Connectivity-Neohm/CPF0805B330RE1?qs=%2Fha2pyFaduh7n2qugHI0eBh%252BDv%2FoDD%2FbToyexee8ey7TK2</a>
R 470 1/8W 0805 1%	Resistores de Filme Fino - SMD 1/8W 470 ohm 1% 50ppm	10	Mouser	603-RT0805FRE07470RL	0,058 €	0,58 €	<a href="https://pt.mouser.com/ProductDetail/Yageo/RT0805FRE07470RL?qs=%2Fha2pyFaduhFC1wu9iyUADMq3OpHh%252BVcU9%252Bz6Es8Y7k4m4N13yQ1Mfln%2FJRHXtXt">https://pt.mouser.com/ProductDetail/Yageo/RT0805FRE07470RL?qs=%2Fha2pyFaduhFC1wu9iyUADMq3OpHh%252BVcU9%252Bz6Es8Y7k4m4N13yQ1Mfln%2FJRHXtXt</a>
R 49.9 1/8W 0805 1%	Resistores de Filme Espesso - SMD 49.9 OHM 1%	10	Mouser	603-RC0805FR-0749R9L	0,028 €	0,28 €	<a href="https://pt.mouser.com/ProductDetail/Yageo/RC0805FR-0749R9L?qs=%2Fha2pyFadug6QMX%2FAz0gg1hvHRuM7sRYfryPrbLIDYgRJrQscVlcVZILfDacO09">https://pt.mouser.com/ProductDetail/Yageo/RC0805FR-0749R9L?qs=%2Fha2pyFadug6QMX%2FAz0gg1hvHRuM7sRYfryPrbLIDYgRJrQscVlcVZILfDacO09</a>
R 59 1/4W 0805 1%	Resistores de Filme Espesso - SMD 1/4W 59 OHM 1%	10	Mouser	660-RK73H2ATTD59R0F	0,033 €	0,33 €	<a href="https://pt.mouser.com/ProductDetail/KOA-Speer/RK73H2ATTD59R0F?qs=%2Fha2pyFaduJLLpodnepgt5iwSMdKfXIDqeeYOAcaqFe4jTPlzHaCuyA%3D">https://pt.mouser.com/ProductDetail/KOA-Speer/RK73H2ATTD59R0F?qs=%2Fha2pyFaduJLLpodnepgt5iwSMdKfXIDqeeYOAcaqFe4jTPlzHaCuyA%3D</a>
P RPI 4 4GB	Kit completo Raspberry Pi 4 (4GB) c/ Livro de iniciação - Raspberry Pi 4 Desktop Kit	1	Robert Mauser	096-7863	119,000 €	119,00 €	<a href="https://mauser.pt/catalog/product_info.php?cPath=1667_2620_1672&amp;products_id=096-7863">https://mauser.pt/catalog/product_info.php?cPath=1667_2620_1672&amp;products_id=096-7863</a>
PCB's		1	JLPCB		4,500 €	4,50 €	
P CANISO RPI	CANBERDUALISO V2.1 TWO CHANNELS	2	SG Electronic Systems	CANBERDUALISO V2.1 TWO CHANNELS	86,010 €	172,02 €	<a href="https://www.sg-electronic-systems.com/ecommerce/can-bus-shield/15-canberdualiso-v21-two-channels-canberdual-iso-pi-v-21-is-an-extension-board-for-raspberry-pi-it-is-an-open-hardware-design-">https://www.sg-electronic-systems.com/ecommerce/can-bus-shield/15-canberdualiso-v21-two-channels-canberdual-iso-pi-v-21-is-an-extension-board-for-raspberry-pi-it-is-an-open-hardware-design-</a>
P CAN NONISO RPI	Ferramentas de Desenvolvimento de Interface 2-Channel CAN-BUS(FD) Shield for Raspberry Pi	2	Mouser	713-103030296	26,910 €	53,82 €	<a href="https://pt.mouser.com/ProductDetail/Seed-Studio/103030296?qs=uwxL4vQweFO%2FKc buOKNzvA==">https://pt.mouser.com/ProductDetail/Seed-Studio/103030296?qs=uwxL4vQweFO%2FKc buOKNzvA==</a>
					TOTAL	590,18 €	