

BOM (Bill of Material) - Inventory components and parts needed to fit the PCB.

To improve the processes, we would like to request the submission of the BOM in the following editable format:

Bill of materials

PCBA description	xxxx
PCBA number	xxxx
PCBA revision	x
bare PCB number	xxxx
Modify Date	18.10.2020

Description*	Manufacturer Part Number*	Quantity*	Designator*	Manufacturer	Fitted	SMD/THT
1500pF ±5% 50V Ceramic Capacitor X7R 0402 (1005 Metric)	04025C152JAT2A	75	C13, C14, C15, C26, C31, C32, C33, C34, C35, C36, C37, C3	AVX	Fitted	
CAPACITOR, 10u/25V	12063C106KAT2A	7	C17, C21, C22, C216, C220, C221, C404	KYOCERA	Fitted	
CAPACITOR, 100p/50V	04025C101KAT2A	6	C18, C49, C50, C217, C285, C286	AVX	Fitted	
CAPACITOR, 100n/16V	CC0402KRX7R7BB104	96	C19, C47, C53, C54, C56, C59, C60, C61, C62, C63, C65, C6	CUSTOMER	Fitted	
CAPACITOR, 1u/16V	C0603C105K4RACTU	12	C23, C24, C222, C223, C303, C304, C418, C421, C424, C425	KEMET	Fitted	
CAPACITOR, 10n/50V	CC0603KRX7R9BB103	5	C25, C85, C86, C167, C224	YAGEO	Fitted	
CAPACITOR, 27p/50V	C0402C270J5GAC7411	2	C27, C30	KEMET	Fitted	
Ceramic capacitor X5R	04023D225KAT2A	12	C28, C29, C52, C55, C57, C58, C64, C68, C69, C76, C289, C2	AVX	Fitted	
CAPACITOR, 4.7u/10V	0603ZD475KAT2A	6	C80, C87, C210, C211, C212, C213	AVX	Fitted	
CAPACITOR, 1u/50V	C0805C105K5RACTU	31	C133A, C133B, C135A, C135B, C136A, C136B, C140A, C140B	CUSTOMER	Fitted	
CAPACITOR, 220u/63V	EEVFK1J221Q	4	C134A, C134B, C231, C258	PANASONIC	Fitted	
DIODE, Schottky 60V/2A, DO-220AA	SS2P6-M3/84A	13	D1, D7A, D7B, D8A, D8B, D13, D16, D21, D22, D23, D24, D25	VISHAY	Fitted	
LED, GREEN, SMT, 0603	APT1608CGCK	6	D2, D4, D5, D203, D205, D207	Kingbright	Fitted	
OSCILLATOR, 20MHz, SMT	7M-20.000MEEQ-T	1	G1	TXC	Fitted	
OSCILLATOR, 25MHz, 30ppm, 19pF, 30Ohm	ABM3-25.000MHZ-D2Y-T	1	G400	ABRACON	Fitted	
FILTER, Chip Ferrite Bead, 60Ohms/6A/0.01Ohm	742792410	18	L1, L3, L5, L10, L11, L12, L13, L14A, L14B, L17A, L17B, L18, L	WURTH ELEKTRONIK	Fitted	
INDUCTOR, 10uH, 2.5A	SRN6045-100M	4	L2, L4, L200, L202	BOURNS	Fitted	
FILTER, Chip Ferrite Bead, 60Ohms/3.5A/0.020Ohm, 0805	BLM21PG600SN1D	4	L6, L7, L8, L9	MURATA	Fitted	
INDUCTOR, 100uH, 5A	IHLP6767GZER101M11	9	L15A, L15B, L16A, L16B, L21, L22, L23, L25, L26	VISHAY	Fitted	
FILTER, Choke com mode, 400Ohm/7A	744290560	3	L27A, L27B, L28	WURTH ELEKTRONIK	Fitted	
FILTER, Chip Ferrite Bead, 50Ohm/0.7A/0.01Ohm	BLM18BB050SN1D	3	L300, L301, L400	MURATA FAIRCHILD SEMICONDUCTOR	Fitted	
TRANSISTOR, MOSFET-N, 8V/25V/0.22A	FDV301N	2	Q1, Q400	SEMICONDUCTOR	Fitted	
RESISTOR, 14k, 0603, 1%	RC0603FR-0714KL	2	R8, R312	YAGEO	Fitted	
RESISTOR, 0, 0603, 1%	RC0603JR-070RL	0	R454, R456	YAGEO	Not Fitted	
RESISTOR, 422, 0603, 1%	RC0603FR-07422RL	2	R145A, R145B	YAGEO	Fitted	
SWITCH, TACTILE SPST-NO, 0.05A/24V	FSM2JSMATR	1	S400	TE CONNECTIVITY	Fitted	
TEST POINT, Red, 1mm diameter, THT	5000	20	TP1, TP2, TP3, TP4, TP95, TP200, TP201, TP202, TP203, TP2	Keystone	Fitted	
SMPS, 5.5-48Vin, 3A, Step-down	ST1S14PHR	2	U1, U200	STM	Fitted	
HALF-BRIDGE, 3.3-15Vcc, 100V/30A, SMT	IRSM005-301MH	9	U2A, U2B, U3A, U3B, U114, U115, U116, U127, U128	INFINEON	Fitted	
TVS, 150W, bidirectional, SOT-23	SRV05-4HTG-D	16	U3, U4, U5, U6, U7, U11, U26A, U26B, U27A, U27B, U29A, U2	LITTELFUSE	Fitted	
SENSOR, Analog temperature sensor -55°C + 150°C	LM35DM/NOPB	1	U34	TEXAS INSTRUMENTS	Fitted	
TRANSCEIVER, Ethernet PHY, 3.3V	KSZ8081RNBCA	1	U300	MICROCHIP	Fitted	
TVS, Transil for ESD, Dual	TPD2EUSB30ADRTR	2	U301, U302	TEXAS INSTRUMENTS	Fitted	
VOLTAGE MONITOR, with watchdog, SOT-23	TPS3828-33QDBVRQ1	1	U400	TEXAS INSTRUMENTS	Fitted	
MCU, 32-Bit, ARM Cortex, 2MB Flash, 1.7V-3.6V	STM32F767ZIT6	1	U401	STM	Fitted	
NOR FLASH MEMORY, 256-Mbit	MT25QL256ABA1EW7-0SIT	1	U402	MICRON	Fitted	
CONNECTOR, DIN41612, 96 contacts	09 03 196 6921	1	X1	HARTING	Fitted	THT
CONNECTOR, 20 contacts, 1.27mm Pitch, Male, with key	FTSH-110-01-F-DV-K-P	1	X2	SAMTEC	Fitted	THT
CONNECTOR, 14 contacts, 2.54mm pitch, SMT	TSM-107-01-F-DV-A-006-P-TR	1	X3	SAMTEC	Fitted	THT
JUMPER, 1x2 contacts, 2.54mm, Male	826629-2	1	X4	TE CONNECTIVITY	Fitted	THT
CONNECTOR, 6 contacts, 2.54mm, Male, THT	826629-6	1	X400	TE CONNECTIVITY	Fitted	THT

* mandatory BOM item

The BOM can be supplied in XLS, TXT and other formats. The goal is to obtain precise information about components tied to the placement of one specific (one type) PCB.

The table should contain each item - description, production code - MPN, quantity and position. Any additional information helps us in the purchase and assembly process.

If you include the SMD/THT item, we can send the offer in the shortest possible time and last, but not least, we can eliminate the error rate.

The description of the component includes its designation and case type. The report mentions other properties (values, voltage, power, etc.) for resistors or capacitors.

For active components, complete the assembly description. Mark the parts that will not be fitted (fitted / not fitted).

CUSTOMER - Mark the components you will supply, so they will not be part of our purchasing process.

If you prefer a specific supplier, also include this information in the bill of materials you are sending.

document version:	Who revised:	Description of changes:
01_2023	Aleš Kleveta	Creation of a new document