

Source Data From: Project: Project Revision:

iMCP_	HTLRBL32L-10_EvB
6.1	

B.O.M. - Bill of Materials

B.O.M. Revision:	1.0
Status:	Concluded
Revision Date:	05/05/2022
Author:	Maurício Carlotto
Obs.:	

SUMMARY					
Total of components	52				
Total of different components	30				
Thru-Hole components	5				
SMT components	45				
Total of passive components	47				
Total of active components	3				

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Item Number	Part Reference	Quantity	Value	Description	Footprint	Manufacturer	Manufacturer Part Number	Type	Assembly Type
1	C1	1	10nF	Multilayer Ceramic Capacitor 10nF, 10%, 50V	0402	Murata	GCM155R71H103KA55D	Passive	SMT
2	C2, C3	2	47pF	Multilayer Ceramic Capacitor 47pF, 5%, 50V	0402	Murata	GCM1555C1H470JA16J	Passive	SMT
3	C4	1	100nF	NC	0402	-	-		
4	C5, C6	2	1uF	Multilayer Ceramic Capacitor 1uF, 10%, 25V, X5R	0402	Murata	GRM155R61E105KA12D	Passive	SMT
5	C7	1	100nF	NC	0402	-	-		
6	C8, C9, C12, C13, C14	5	100nF	Multilayer Ceramic Capacitor 100nF, 10%, 50V	0402	Murata	GCM155L8EH104KE07D	Passive	SMT
7	C15, C16, C17, C18	4	-	NC	0402	-	-	Passive	SMT
8	CN1	1	NA	Micro USB 2.0 Connector	NA	Amphenol ICC (FCI)	10118194-0001LF	Passive	PTH
9	CN2	1	NA	2 POS HDR R/A SMT 2.0mm	NA	TE Connectivity	1775469-2	Passive	SMT
10	CN3	1	1x16	Pin Header 1x16, Male, through hole, 2.54mm pitch, vertical	NA	Harwin	M20-9991646	Passive	PTH
11	CN4	1	1x12	Pin Header 1x12, Male, through hole, 2.54mm pitch, vertical	NA	Harwin	M20-9771246	Passive	PTH
12	CN5, CN6	2	50ohms	SMA Coaxial Connector Female PCB Edge Mount	NA	RF Solutions	CON-SMA-EDGE-S	Passive	SMT
13	D1	1	NA	Shottky Diode Rectifier 1A 20V	S-FLAT-2	Toshiba	CRS06(TE85L,Q,M)	Passive	SMT
14	D2	1	NA	Standard LEDs - SMD 0603 Blue Led	0603	Inolux	IN-S63AT5B	Passive	SMT
15	D3	1	NA	Standard LEDs - SMD 0603 White Led	0603	ROHM Semiconductor	SMLEN3WBC8W1	Passive	SMT
16	FB1	1	30ohms	Ferrite Bead 30ohms 1.1A, 25% tolerance	0402	Murata	BLM15AX300SN1D	Passive	SMT
17	J1	1	NA	RF Shield	NA	Würth Elektronik	36903205S	Passive	SMT
18	JP2, JP3	2	1x2	Pin header 1x2, Male, through hole, 2.54mm pitch, vertical	NA	Harwin	M20-9990246	Passive	PTH
19	L1, L2	2	0	Thick film resistor, 0ohms, 5%, 50V	0402	Yageo	RC0402JR-070RL	Passive	SMT
20	Q1, Q2	2	NA	MOSFET P-CH 2A 62mOhm	SOT23-3	Infineon Technologies	BSS308PEH6327XTSA1	Passive	SMT
21	R1, R5, R6, R7, R8	5	100K	Thin film resistor, 100kohms, 1%, 50V	0402	Yageo	RT0402FRE07100KL	Passive	SMT
22	R2, R3	2	27	Thin film resistor, 27ohms, 1%, 50V	0402	Yageo	RT0402FRE0727RL	Passive	SMT
23	R4, R9, R12	3	1K	Thin film resistor, 1kohms, 1%, 50V	0402	Yageo	RT0402FRE071KL	Passive	SMT
24	R13	1	4K7	Thin film resistor, 4.7kohms, 1%, 50V	0402	Yageo	RT0402FRE074K7L	Passive	SMT
25	R14, R15	2	10K	Thin film resistor, 10kohms, 1%, 50V	0402	Yageo	RT0402FRE0710KL	Passive	SMT
26	SW1, SW3	2	NA	Tactile switch SPST-NO Top actuated surface mount, color white	NA	C&K	PTS815 SJK 250 SMTR LFS	Passive	SMT
27	SW2	1	NA	Tactile switch SPST-NO Top actuated surface mount, color blue	NA	C&K	PTS810 SJG 250 SMTR LFS	Passive	SMT
28	U1	1	NA	iMCP HTLRBL32L-10	LGA32	HT Micron	HTLRBL32L-10	Active	SMT
29	U2	1	NA	USB to Serial Converter IC	DFN-12	FTDI	FT234XD-R	Active	SMT
30	U3	1	NA	LDO Voltage Regulators 3.3V 500mA	DFNW-8	ON Semiconductor	NCV8165ML330TCG	Active	SMT
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