

Bill of Materials (BOM)

Project: current_probe

Version: 08.10.2023

Item	Qty	Designators	Value	Footprint	Part. No.	DNP	Datasheet
1	1	C1	CFB	Capacitor_SMD:C_0603_1608Metric		DNP	~
2	1	C2	CSH	Capacitor_SMD:C_0603_1608Metric		DNP	~
3	2	C3, C10	100p	Capacitor_SMD:C_0603_1608Metric		DNP	~
4	11	C4, C5, C6, C7, C8, C9, C12, C14, C16, C18, C20	100n	Capacitor_SMD:C_0603_1608Metric			~
5	8	C11, C13, C15, C17, C19, C24, C29, C30	1n	Capacitor_SMD:C_0603_1608Metric			~
6	4	C21, C27, C28, C32	10u	Capacitor_SMD:C_0805_2012Metric			~
7	3	C22, C31, C33	1u	Capacitor_SMD:C_0805_2012Metric			~
8	1	C23	10n	Capacitor_SMD:C_0603_1608Metric			~
9	1	C25	330n	Capacitor_SMD:C_0603_1608Metric			~
10	1	C26	47n	Capacitor_SMD:C_0603_1608Metric			~
11	1	D1	EZA-EG2N50AX	Diode_SMD:D_0603_1608Metric			https://www.onsemi.com/pub/Collateral/ESD9B-D.PDF
12	1	D2	D_Schottky	Diode_SMD:D_SMA			~
13	1	D3	GREEN	LED_SMD:LED_0805_2012Metric			~
14	1	F1	300 mA	Fuse:Fuse_0805_2012Metric	0805L010/24YR		~
15	3	FB1, FB2, FB3	22	Inductor_SMD:L_0603_1608Metric	BLM18SD220SN1D		https://www.murata.com/en-us/products/productdata/8796738650142/ENFA0003.pdf
16	4	FB4, FB5, FB6, FB7	2k2	Inductor_SMD:L_0603_1608Metric	BLM18BD222SZ1D		~
17	1	J1	SMA	Connector_Coaxial:SMA_Amphenol_132289_EdgeMount	132289RP		https://s3-us-west-2.amazonaws.com/catsy.582/132289rp.pdf
18	1	J2	Conn_01x02_Pin	Connector_PinHeader_2.54mm:PinHeader_1x02_P2.54mm_Horizontal			~
19	1	J3	Conn_01x05_Pin	Connector_PinHeader_2.54mm:PinHeader_1x05_P2.54mm_Vertical			~
20	2	JP1, JP2	SolderJumper_3_Bridged12	Jumper:SolderJumper-3_P1.3mm_Bridged12_Pad1.0x1.5mm			~
21	2	L1, L2	100u	Inductor_SMD:L_0805_2012Metric	MLZ2012N101LT000		~
22	1	L3	6u8	Inductor_SMD:L_0805_2012Metric	MLZ2012N6R8LT000		~
23	1	PS1	RO-3.309S	Converter_DCDC:Converter_DCDC_Murata_MEE1SxxxxSC_THT	RO-3.309S		https://power.murata.com/pub/data/power/ncl/kdc_mee1.pdf
24	1	R1	RFB	Resistor_SMD:R_0603_1608Metric		DNP	~
25	4	R2, R3, R8, R9	R	Resistor_SMD:R_0603_1608Metric		DNP	~
26	3	R4, R7, R13	330	Resistor_SMD:R_0603_1608Metric			~
27	2	R5, R6	237	Resistor_SMD:R_0603_1608Metric			~
28	1	R10	12k	Resistor_SMD:R_0603_1608Metric			~
29	1	R11	3k	Potentiometer_THT:Potentiometer_Bourns_3296Y_Vertical	3296Y-1-302LF		https://www.bourns.com/docs/product-datasheets/3296.pdf
30	1	R12	RCLMP	Resistor_SMD:R_0603_1608Metric		DNP	~
31	5	TP1, TP2, TP3, TP4, TP5	TestPoint	TestPoint:TestPoint_Loop_D1.80mm_Drill1.0mm_Beaded	5001		~
32	1	TR1	ADTT1-6	RF_Mini-Circuits:Mini-Circuits_CD637_H5.23mm	ADTT1-6		https://www.minicircuits.com/pdfs/ADTT1-6+.pdf
33	1	U1	AD8331ARQZ	current_probe:RQ_20_ADI-L	AD8331ARQZ		
34	1	U2	ADM7150ARDZ-5.0	Package_SO:SOIC-8-1EP_3.9x4.9mm_P1.27mm_EP2.29x3mm	ADM7150ARDZ-5.0		