

INT133 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB	1		INT133	Any	Printed Circuit Board	
2	C1, C4, C7, C32, C33, C34, C35, C36, C37	9	0.1uF	06033C104JAT2A	AVX	CAP, CERM, 0.1 uF, 25 V, +/- 5%, X7R, 0603	0603
3	C2, C5, C8	3	1uF	C1608X5R1H105K080AB	TDK	CAP, CERM, 1 uF, 50 V, +/- 10%, X5R, 0603	0603
4	C3, C10, C11, C12, C13	5	10uF	CGA5L1X7R1V106K160AC	TDK	CAP, CERM, 10 uF, 35 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1206_190	1206_190
5	C6, C9	2	3.3uF	C0603C335K9PACTU	Kemet	CAP, CERM, 3.3 uF, 6.3 V, +/- 10%, X5R, 0603	0603
6	C14, C22, C23, C31	4	1uF	GRM033R60J105MEA2D	MuRata	CAP, CERM, 1 uF, 6.3 V, +/- 20%, X5R, 0201	0201
7	C15, C17, C20, C24, C27, C29	6	0.1uF	CL03A104KP3NNNC	Samsung Electro-Mechanics	CAP, CERM, 0.1 uF, 10 V, +/- 10%, X5R, 0201	0201
8	C16, C19, C26, C30	4	2.2uF	CL03A225MQ3CRNC	Samsung Electro-Mechanics	CAP, CERM, 2.2 uF, 6.3 V, +/- 20%, X5R, 0201	0201
9	C18, C21, C25, C28	4	0.01uF	GRM033R61C103KA12D	MuRata	CAP, CERM, 0.01 uF, 16 V, +/- 10%, X5R, 0201	0201
10	D1, D2	2		RB168MM-40TR	Rohm	DIODE SCHOTTKY 40V 1A PMDU	SOD-123FL-2
11	D3, D4, D5, D6	4		PESD5V0C1USF	Nexperia	3V Clamp 9A (8/20us) Ipp Tvs Diode Surface Mount DSN0603-2	DSN0603-2
12	H9, H10, H11, H12	4		SJ-5303 (CLEAR)	3M	Bumpon, Hemisphere, 0.44 X 0.20, Clear	Transparent Bumpon
13	J1, J13	2		67068-8000	Molex	Connector, Receptacle, USB TYPE B, R/A, Top Mount TH	USB Type B Receptacle
14	J2, J14	2		676430910	Molex	Connector, Receptacle, USB Standard, R/A, Top Mount TH	Standard USB Rcpt
15	J3, J4, J5, J6, J7, J8, J9, J10, J11, J15	10		87898-0304	Molex	Header, 2.54mm, 3x1, Gold, SMT	Header, 2.54mm, 3x1, SMT
16	J12	1		878980204	Molex	Header, 2.54 mm, 2x1, Gold, R/A, SMT	Header, 2.54 mm, 2x1, R/A, SMT
17	L1, L2	2	1500 ohm	BLM18HE152SN1D	MuRata	Ferrite Bead, 1500 ohm @ 100 MHz, 0.5 A, 0603	0603
18	LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650 x 0.200 inch
19	R1	1	97.6k	CRCW060397K6FKEA	Vishay-Dale	RES, 97.6 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
20	R2, R4, R6, R8, R10	5	30.1k	CRCW060330K1FKEA	Vishay-Dale	RES, 30.1 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
21	R3, R7	2	53.6k	CRCW060353K6FKEA	Vishay-Dale	RES, 53.6 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
22	R5, R9	2	15.0k	CRCW060315K0FKEA	Vishay-Dale	RES, 15.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
23	R12, R17, R22, R27	4	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
24	R13, R19, R20, R24, R25, R28, R30	7	0	5106	Keystone	RES, 0, 1%, 0.5 W, 0805	0805
25	R35	1	4.70k	RT0603BRD074K7L	Yageo America	RES, 4.70 k, 0.1%, 0.1 W, 0603	0603
26	SH-J16	1		881545-2	TE Connectivity	Shunt, 100mil, Gold plated, Black	Shunt 2 pos. 100 mil
27	T1	1	110uH	750315240	Würth Elektronik	Transformer, 110 uH, SMT	10.41x12.32mm
28	TP1, TP3, TP5, TP7, TP8, TP9, TP10, TP11, TP13, TP14, TP15, TP16, TP17	13			Keystone	Test Point, Red, Through Hole, RoHS, Bulk	5010
29	TP2, TP4, TP6, TP12, TP18	5		5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
30	U1	1		ISOUSB211DP	Texas Instruments	High/Full/Low Speed Isolated USB Repeater, SSOP28	SSOP28
31	U2	1		SN6505ADBVR	Texas Instruments	Low-Noise 1-A Transformer Driver for Isolated Power Supplies, Internal Clock-160kHz, DBV0006A (SOT-23-6)	DBV0006A
32	U3	1		TPS73701DRBT	Texas Instruments	Single Output LDO, 1A, Adj. (1.2 to 5.0V), Reverse Current Protection, DRB0008A (VSON-8)	DRB0008A
33	U4, U5, U6, U7	4		TPS76701QD	Texas Instruments	Single Output Fast Transient Response LDO, 1 A, Adjustable 1.5 to 5.5 V Output, 2.7 to 10 V Input, with Low IQ, 8-pin SOIC (D), -40 to 125 degC, Green (RoHS & no Sb/Br)	D0008A
34	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
35	R11, R16, R21, R26	0	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
36	R14, R15, R18, R23, R29	0	0	5106	Keystone	RES, 0, 1%, 0.5 W, 0805	0805
37	R31, R32, R33, R34	0	2.40k	RG1608P-242-B-T5	Susumu Co Ltd	RES, 2.40 k, 0.1%, 0.1 W, 0603	0603
38	U8, U9	0		TPD2E2U06DRLR	Texas Instruments	Dual-Channel High-Speed ESD Protection, DRL0005A (SOT-OTHER-5)	DRL0005A