

+ 1:1 Shunt

+ 1:1 $f_c=1.6\text{MHz}$ $Z_{in}=200k$

+ 10:1 $f_c=1.5\text{MHz}$ $Z_{in}=113k$

+ 100:1

$f_c=1.6\text{MHz}$ $Z_{in}=950k$

+ 1:000

1000:1
 $f_c=916\text{kHz}$ $Z_{in}=1.88M$

VLOVHI GND

1mA max

MichaelC 06-2024

U1

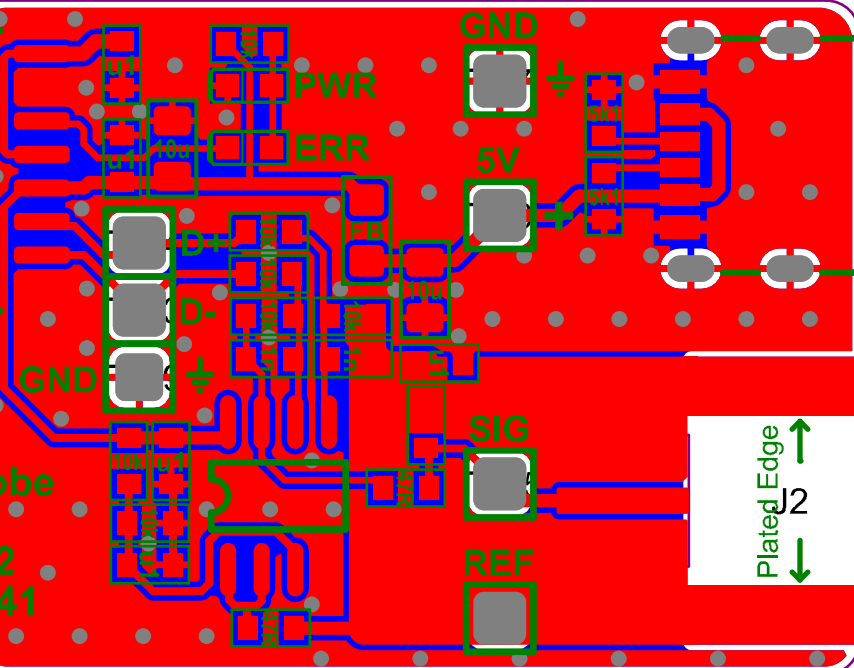
Rev A

Isolated Differential Probe

AMC3330: $\pm 1.00\text{Vin}$ $G=2$

AMC3302: $\pm 50\text{mVin}$ $G=41$

Iso 1.2kVrms 1.7kVDC



Plated Edge
J2

+ 1:1 Shunt

+ 1:1 $f_c=1.6\text{MHz}$ $Z_{in}=200\text{k}$

+ 10:1 $f_c=1.5\text{MHz}$ $Z_{in}=113\text{k}$

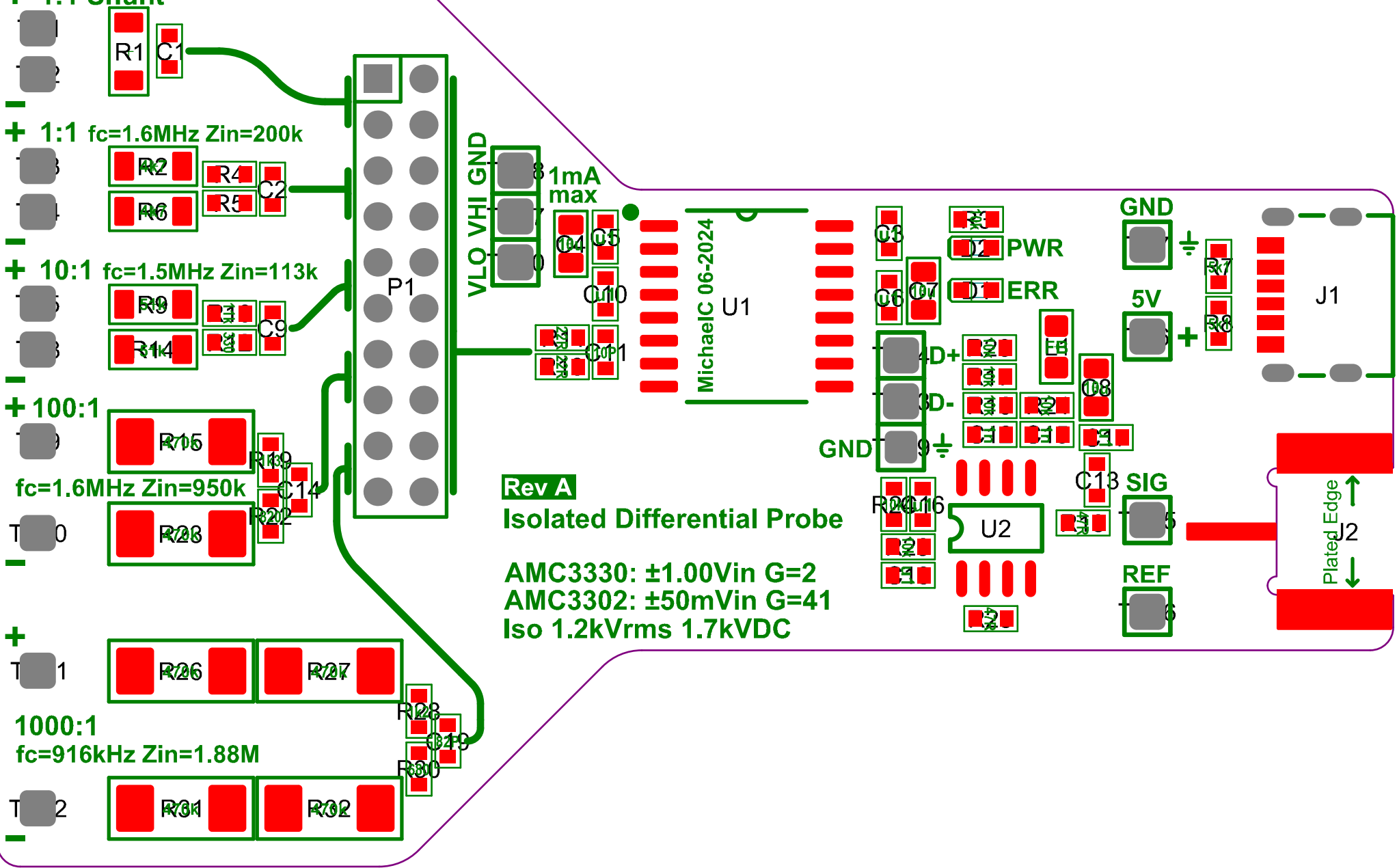
+ 100:1

$f_c=1.6\text{MHz}$ $Z_{in}=950\text{k}$

+ 1000:1

$f_c=916\text{kHz}$ $Z_{in}=1.88\text{M}$

T 2

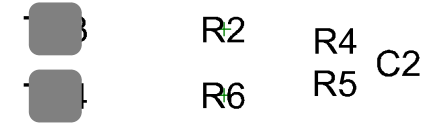


Rev A
Isolated Differential Probe
AMC3330: $\pm 1.00\text{V}_{in}$ $G=2$
AMC3302: $\pm 50\text{mV}_{in}$ $G=41$
Iso 1.2kV_{rms} 1.7kV_{DC}

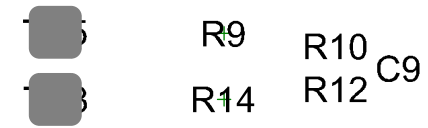
+ 1:1 2 1:1



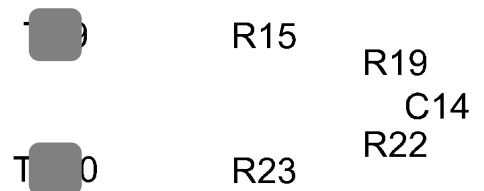
+ 1:1



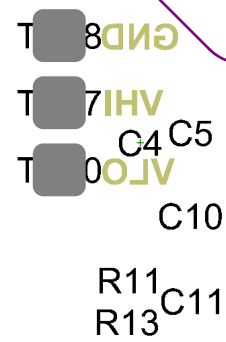
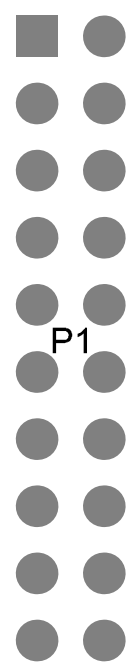
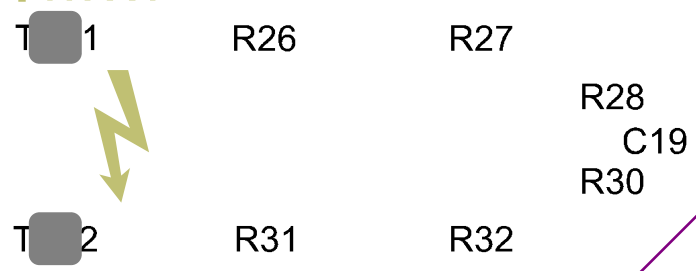
+ 1:0 1



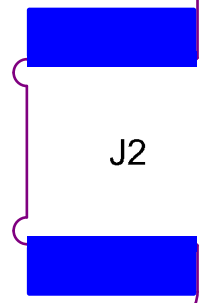
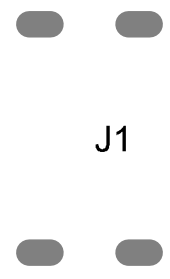
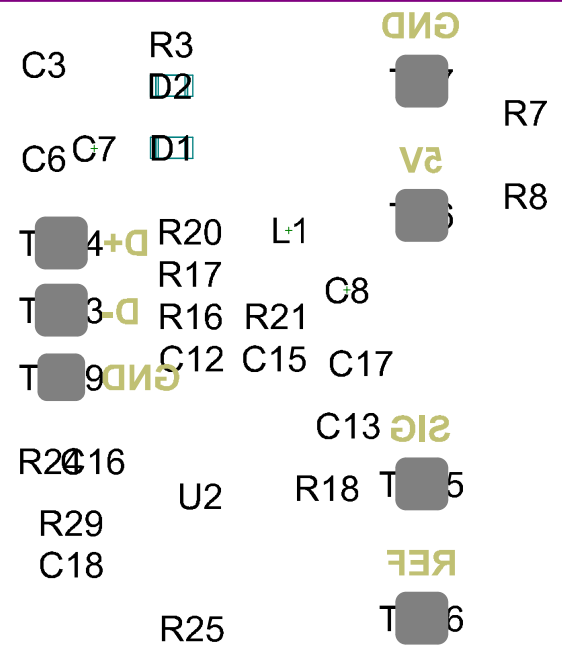
+ 1:00 1

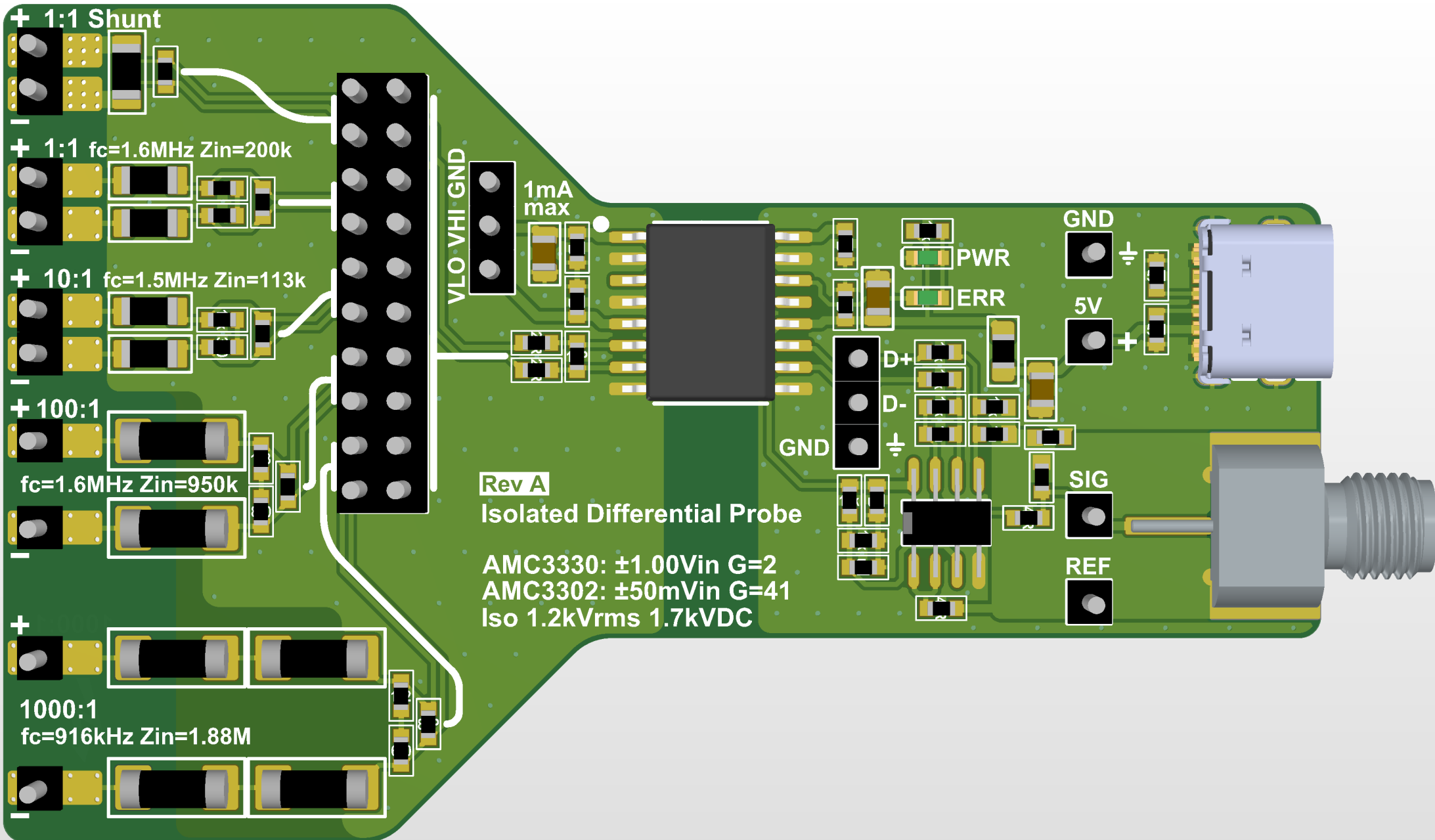


+ 1:000 1



U1





Comment	Description	Footprint	LibRef	Designator	Quantity
NF	Capacitor - S/M, Resistor - S/M	0603	CAP-STD-SM, RESSM	C1, C2, C9, C13, C14, R4, R5	7
100nF	Capacitor - S/M	0603	CAP-STD-SM	C3, C5, C6, C10, C16, C17, C18	7
10uF/ 25V	Capacitor - S/M	0805_cap_Rounded	CAP-STD-SM	C4, C7, C8	3
10pF	Capacitor - S/M	0603	CAP-STD-SM	C11	1
1nF	Capacitor - S/M	0603	CAP-STD-SM	C12, C15	2
82pF	Capacitor - S/M	0603	CAP-STD-SM	C19	1
RED		LED-0603	LED	D1	1
GRN		LED-0603	LED	D2	1
USB C6-Pin	USB Type C Receptacle Power Only (6 pin)	USB-C_6pin_Conn	USB-C_6pin	J1	1
SMA Conn	SMA connector, mid- mount	SMA_SMD	SMA_SMD	J2	1
PBY201209T-601Y-N	Ferrite Bead WE-CBF, Z = 600 Ohm	0805_Rounded	742792651	L1	1
Header 10X2	Header, 10-Pin, Dual row	IDC20	Header 10X2	P1	1
0R01	Resistor - S/M	1206	RESSM	R1	1
4k7	Resistor - S/M	1206	RESSM	R2, R6	2
10k	Resistor - S/M	0603	RESSM	R3, R16, R17, R20, R21, R24, R29	7
5k1	Resistor SMD	0603	ResSMD	R7, R8	2
51k	Resistor - S/M	1206	RESSM	R9, R14	2
11k	Resistor - S/M	0603	RESSM	R10	1
220R	Resistor - S/M	0603	RESSM	R11, R13	2
330R	Resistor - S/M	0603	RESSM	R12	1
470k	Resistor SMD	MMB0207	ResSMD	R15, R23, R26, R27, R31, R32	6
47R	Resistor - S/M	0603	RESSM	R18, R25	2
1k3	Resistor - S/M	0603	RESSM	R19	1
820R	Resistor - S/M	0603	RESSM	R22	1
1k2	Resistor - S/M	0603	RESSM	R28	1
680R	Resistor - S/M	0603	RESSM	R30	1
Test Point	Pad for Test Point	TP	TP	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP17, TP18, TP19, TP20	20
AMC33xx	Isolated differential analog sensor	DW0016B	AMC330X	U1	1
TLC272ID	LinCMOS PRECISION DUAL OPERATIONAL AMPLIFIER	SO-8	TLC272ID	U2	1