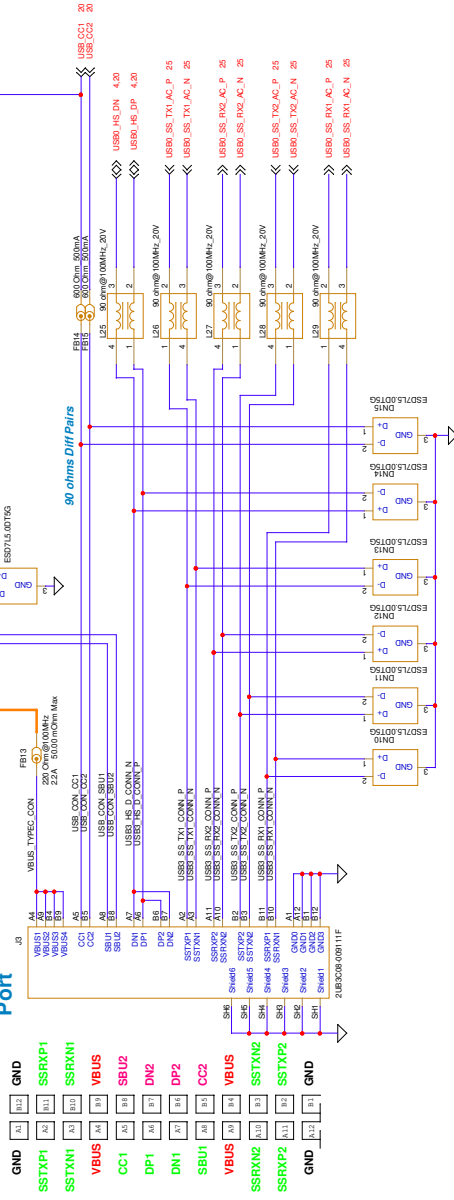
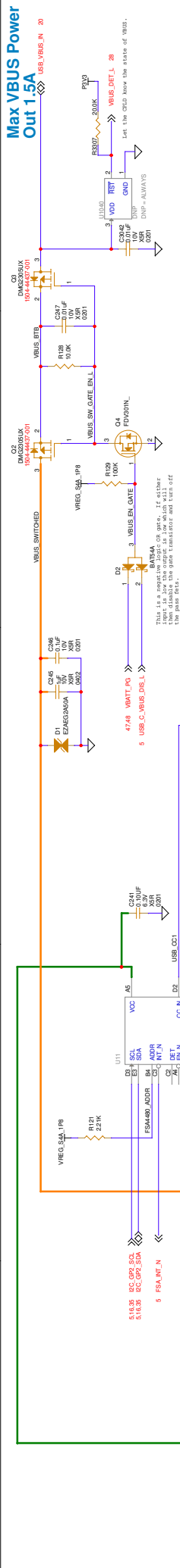






The PTN38003A Redriver requires SW programming and management to function



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Oban50 MLB

USB Type-C

Size	DWG NO
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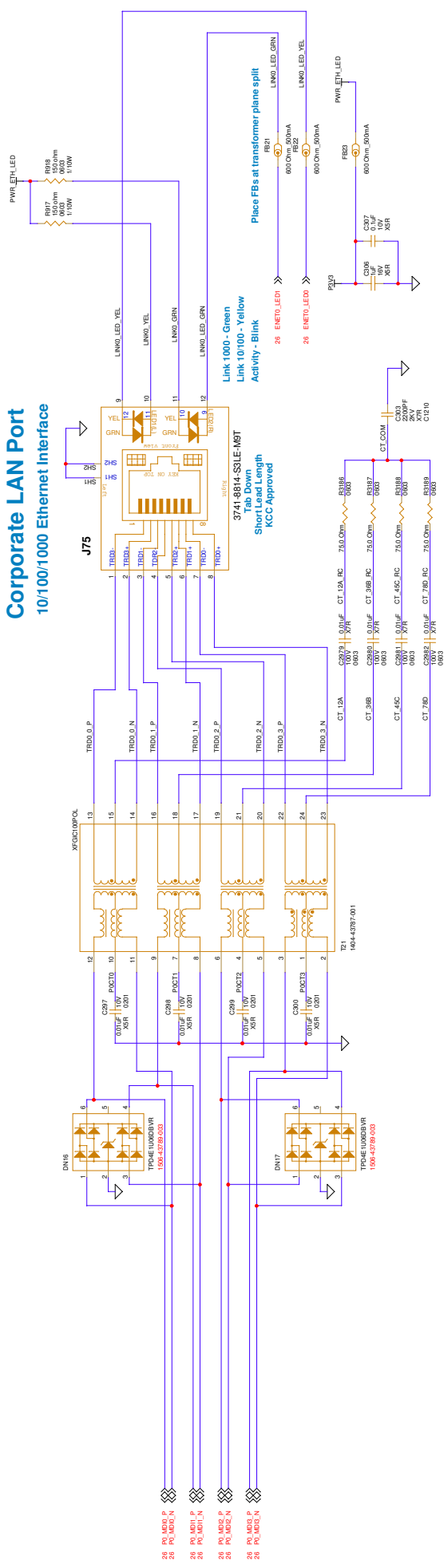
15 JULY 2004

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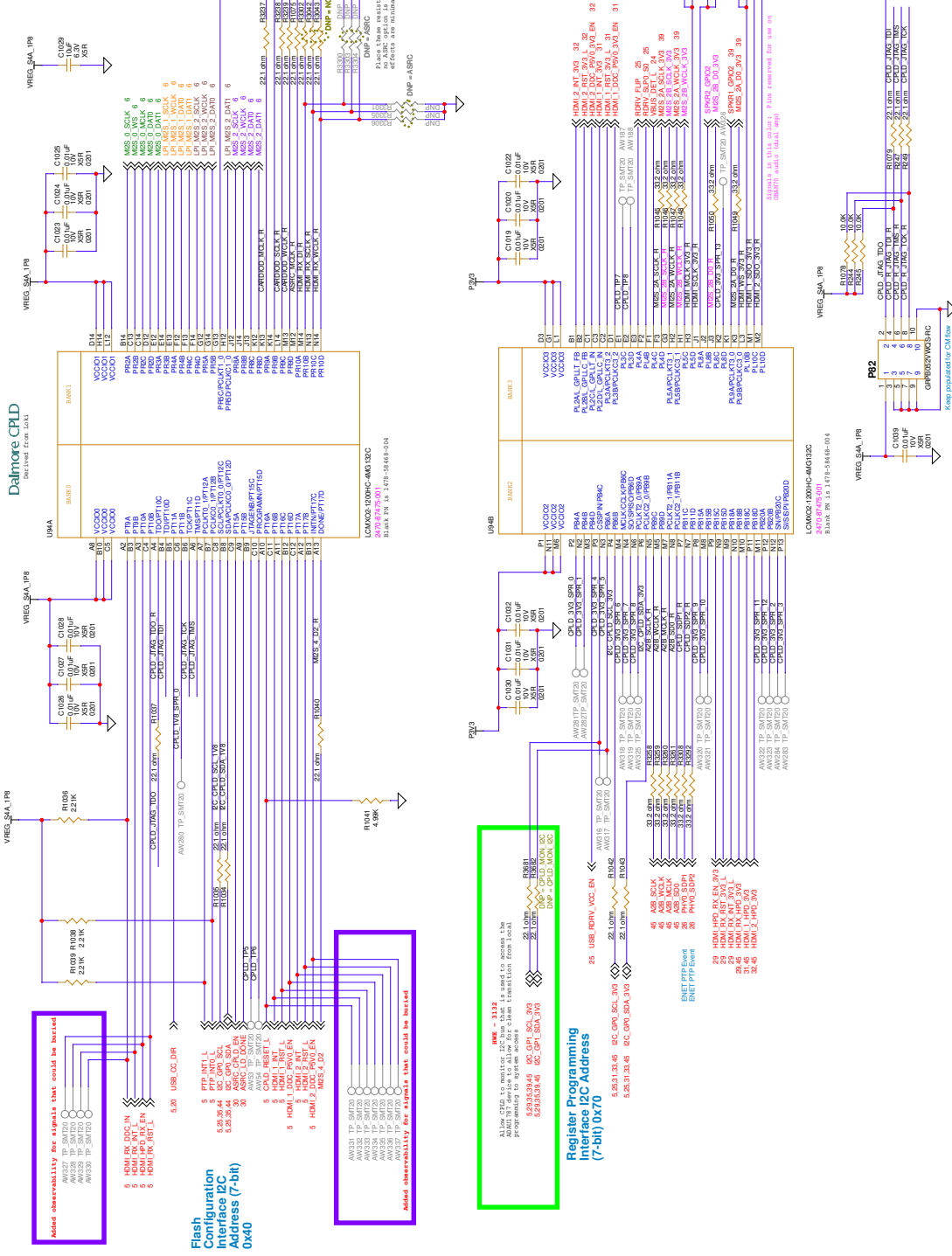
10/100/1000 Ethernet Interface



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Dalmore CPLD

Derived from 54K1



Requires Adapter Cable



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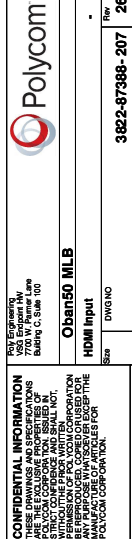
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Content Audio

Asynchronous Sample Rate Converter

Please observe maximums close together as they show the effects on the maximums in the

no ASRC option is chosen the transmission line

To CPLD if SoC can do ASRC function

ASRC LCK1 V18

ASRC LCK2 V18

ASRC LCK3 V18

ASRC LCK4 V18

ASRC LCK5 V18

ASRC LCK6 V18

ASRC LCK7 V18

ASRC LCK8 V18

ASRC LCK9 V18

ASRC LCK10 V18

ASRC LCK11 V18

ASRC LCK12 V18

ASRC LCK13 V18

ASRC LCK14 V18

ASRC LCK15 V18

ASRC LCK16 V18

ASRC LCK17 V18

ASRC LCK18 V18

ASRC LCK19 V18

ASRC LCK20 V18

ASRC LCK21 V18

ASRC LCK22 V18

ASRC LCK23 V18

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ASRC LCK129 V18

ASRC LCK130 V18

ASRC LCK131 V18

ASRC LCK132 V18

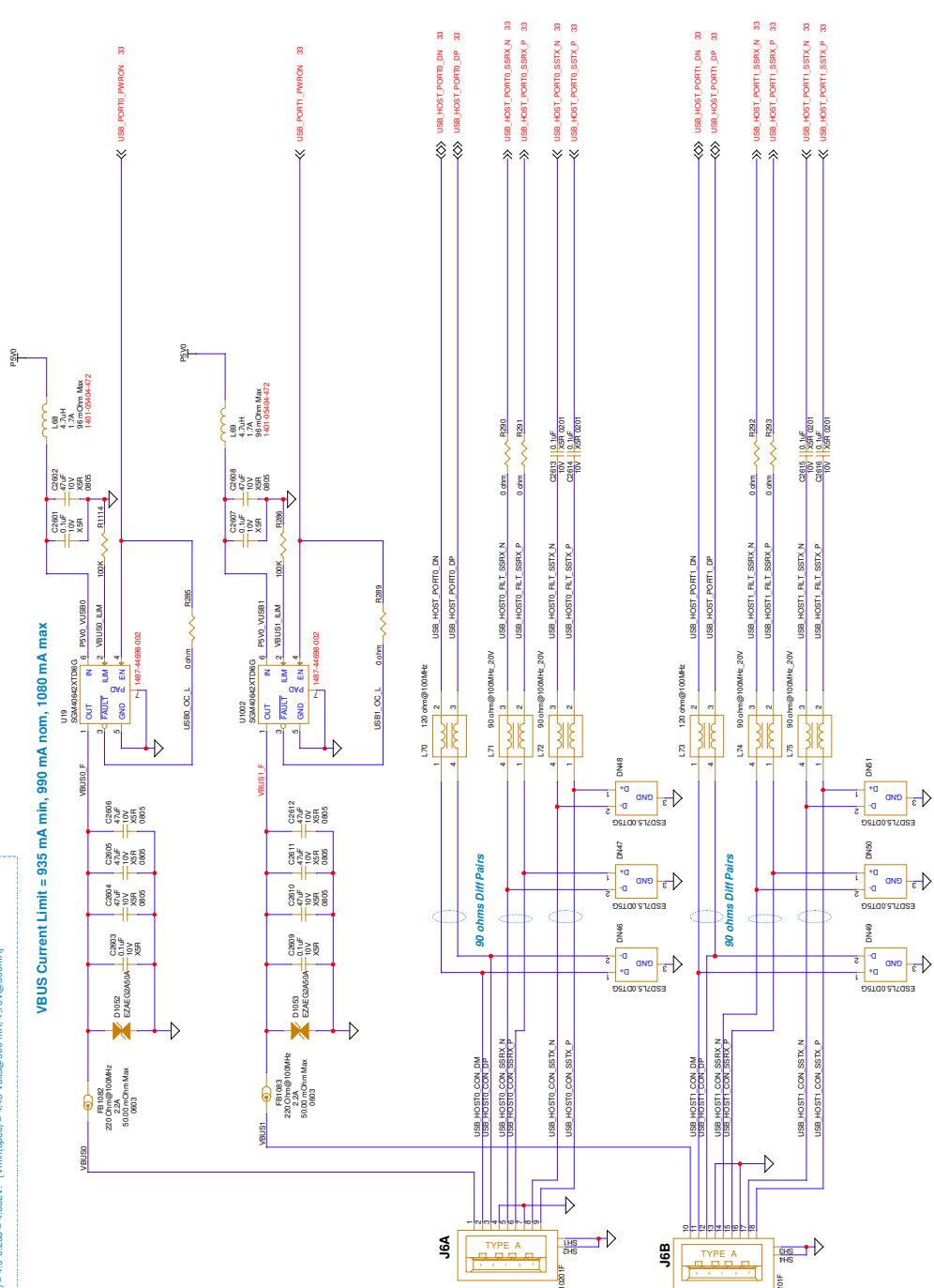
ASRC LCK133 V18

ASRC LCK134 V18

ASRC LCK13

$V_{bus}(R_{tot}) = 95 \times 122.5\Omega = 268\text{ m}\Omega\text{m}$
 $V_{drop(max)} = 1.0 \times 0.268\text{m}\Omega\text{m} = 0.268\text{V} @ 1\text{A}$
 $V_{min(usb)} = 4.9 - 0.268 = 4.632\text{V}$ (Vmin(gpu) = 4.45 V @ 900 mA, 4.75V @ 500mA)

VBUS Current Limit = 935 mA min, 990 mA nom, 1080 mA max

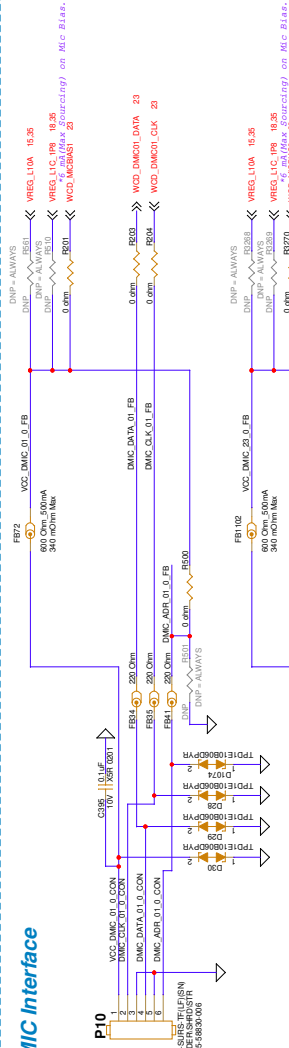


USB 3.0 Host Port 0 Bottom

USB 3.0 Host Port 1 Top

MEMs MIC Interface

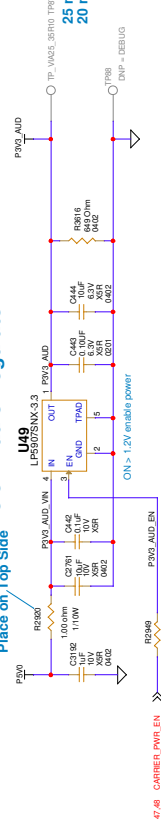
Left MEMS Connector



Nominal voice audio pickup is for 30 mV rms maximum from the Electret Microphones. Note that the gain of this circuit has been reduced to allow for non-clamping input pickup from the loud speakers that exceed 60 mV rms during Zoom and Teams testing

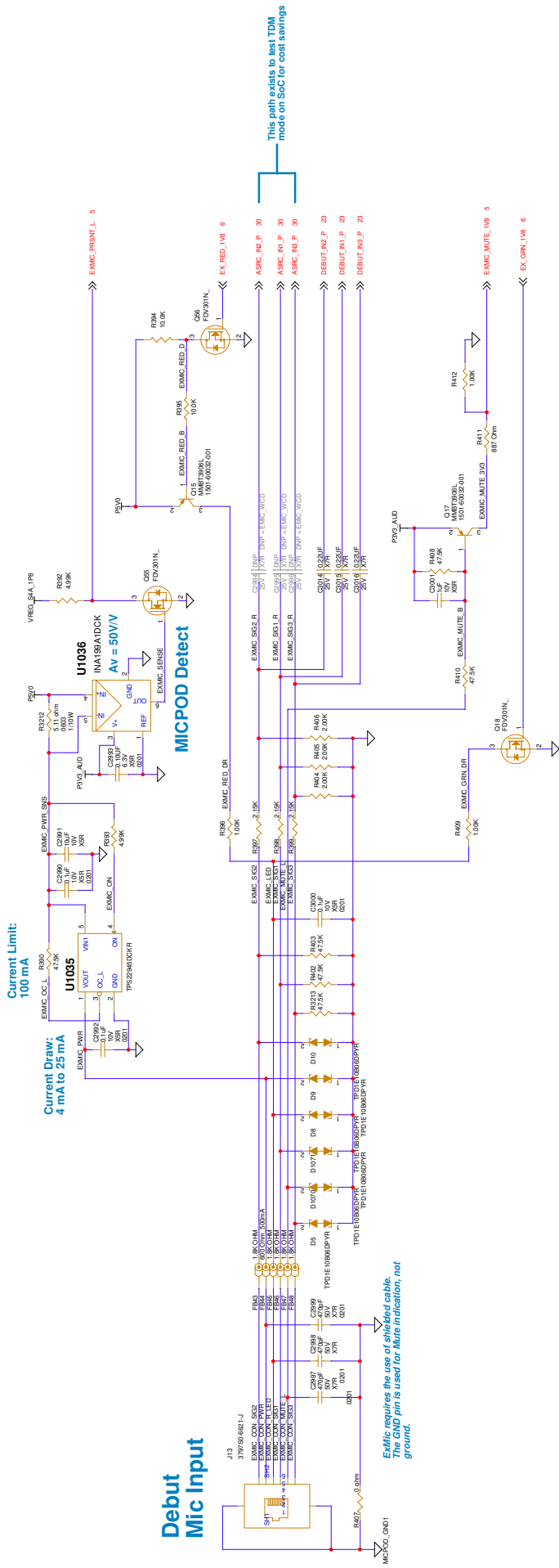


R10 TP87
25 mA Max
20 mA Typ



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Electret Audio Room Mics			

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ExMic requires the use of shielded cable. The GND pin is used for Mute indication, not ground.