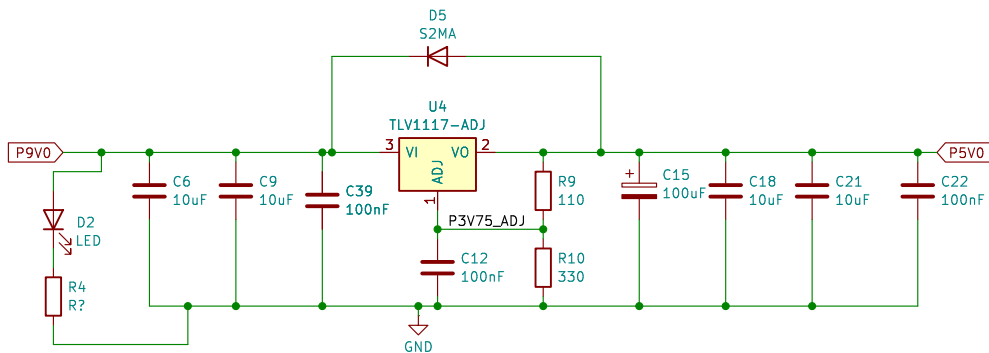


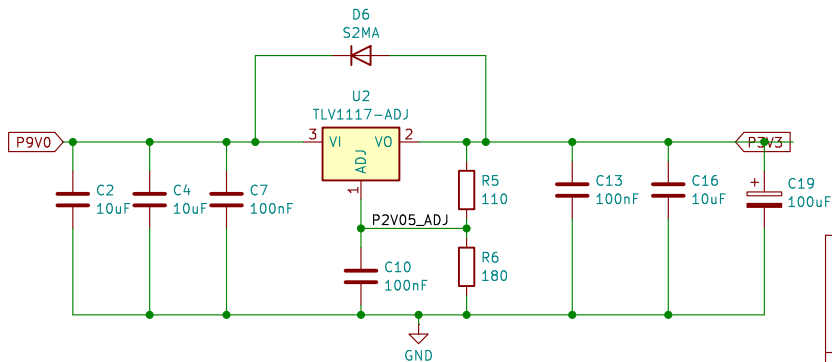
INPUT POLARITY PROTECTION

11mA through ADJ feedback resistors, min 1.7mA load
 $V_{ADJ} = 9 \cdot R2 / (R2 + R3) = 9 \cdot 680 / (110 + 680) = 7.75V$
 <1.3 V dropout

VCXO - 3.3V 28mA = 92mW
 LEE-59+ - 9V 65mA = 585mW
 LEE-59+ - 9V 65mA = 585mW
 PMA2-123LN5+ - 5.0V 30mA = 150 mW
 SUM: useful energy 1412 mW
 Total 12V current: 188 mA - 2256 mW



11mA through ADJ feedback resistors, min 1.7mA load
 $V_{ADJ} = 5.0 \cdot R2 / (R2 + R3) = 5.0 \cdot 330 / (330 + 110) = 3.75V$
 <1.3 V dropout



11mA through ADJ feedback resistors, min 1.7mA load
 $V_{ADJ} = 3.3 \cdot R2 / (R2 + R3) = 3.3 \cdot 180 / (110 + 180) = 2.05V$
 <1.3 V dropout

Sheet: /InputPower/
 File: InputPower.kicad_sch

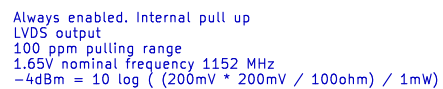
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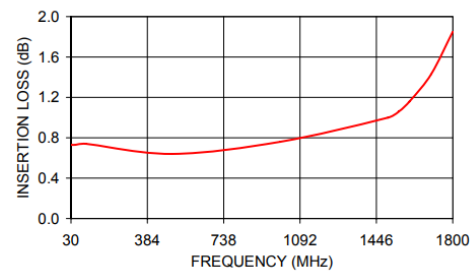
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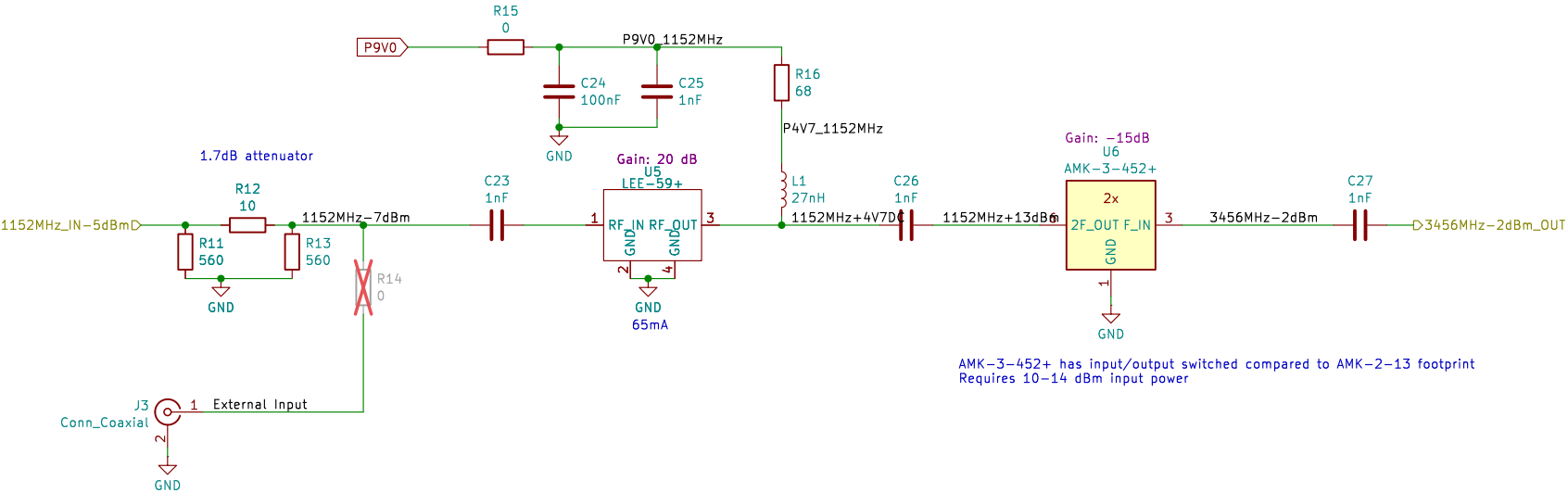


INSERTION LOSS



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9V 65mA = 585mW



LEE-59+ gain

Electrical Specifications at 25°C and 65mA, unless noted

Parameter		Min.	Typ.	Max.	Units
Frequency Range*		DC		5	GHz
Gain	f=0.1 GHz	—	20.6	—	dB
	f=1 GHz	—	20.3	—	
	f=2 GHz	17.8	19.7	—	
	f=4 GHz	—	15.8	—	
	f=5 GHz	—	13.8	—	
	f=8 GHz	—	7.6	—	
Input Return Loss	f= DC to 3 GHz	—	14	—	dB

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