

Nikola Engineering Amplifier Design Request Worksheet



Model Brand: _____ Date: ____/____/____
 Model Name: _____

Number of amplifiers in series: _____
 Description of amplifier series

		Requested Delivery Dates	
_____		First Prototype	
_____		Second Prototype	
_____		Initial Production	
_____		Full Production	

Amplifier is similar to what previous Nikola or other design _____
 Designed to Compete against: _____

Design Exclusivity: PCB None(OEM) Worldwide Regional _____
 Heat Sink Extrusion None(OEM) Worldwide Regional _____

Amplifier Design:

	Description	Amplifier Power 1% THD+N 14.4V 1kHz (100Hz for Sub)			Freq Response	Class	Bridging
		1Ω	2Ω	4Ω			
Design 1						NA Ext Int	
Design 2						NA Ext Int	
Design 3						NA Ext Int	
Design 4						NA Ext Int	

Contact Information

Name: _____
 Phone: _____
 Fax: _____
 Name: _____
 Phone: _____

SNR: Ref 1W, 4Ω	_____ dB	Request	Require
Separation:	_____ dB	Request	Require
THD+N 20Hz - 20kHz @ _____ W	0. _____ %	Request	Require

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Preamp Options:

Input Impedance	Line Level	NA ____Ω	Speaker Level	NA ____Ω
Preamp Construction	Analog	DSP		

	Gain Range	Crossover	Freq	Crossover Slope	x10	Band Pass	Remote
Design 1		High Pass	to	NA 12dB 18dB 24dB			NA FULL LP ____dB
		Low Pass	to	NA 12dB 18dB 24dB			
Design 2		High Pass	to	NA 12dB 18dB 24dB			NA FULL LP ____dB
		Low Pass	to	NA 12dB 18dB 24dB			
Design 3		High Pass	to	NA 12dB 18dB 24dB			NA FULL LP ____dB
		Low Pass	to	NA 12dB 18dB 24dB			
Design 4		High Pass	to	NA 12dB 18dB 24dB			NA FULL LP ____dB
		Low Pass	to	NA 12dB 18dB 24dB			

	Bass Boost Level	Bass Boost Freq Range	Other Bass Enhancement	Subsonic Slope	Sub Sonic Range
Design 1				NA 12dB 24dB	
Design 2				NA 12dB 24dB	
Design 3				NA 12dB 24dB	
Design 4				NA 12dB 24dB	

Preamp Notes:

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Power Supply and Indicator Options:

Regulation	None	Minimal (OVP)	Full	Same Power for all loads
Fan	NA		Always On	Thermal Speed Control
Thermal Behavior	Shutdown Temp (Max) ____°C		Rollback Temp ____°C	Rollback Type
Thermal Min. Runtime			Testing Condition	
Thermal Max. Heat sink Temp				
Rated Voltage	____V to ____V		Under Volt error at ____V	Over Volt error at ____V
Load dump rated	Yes No		DC Output Protection	Yes No
Short Circuit Protection	Trigger at ____Ω		Detect repeated Shorts	Yes No
Autosense Turn-On IN	Yes No		Remote Turn-On OUT	Yes No
Turn On Delay Time			Turn Off Time	
Dark Current	mA uA			
Fuses	NA		1 2 3 4	Individual Rating ____A
Power LED	NA		Color:	Bicolor
Error LED	NA		Color:	Bicolor
Clip LED	NA		Color:	
Illumination (Logo or General)	NA		Color:	
Microprocessor	NA		Brand:	Part Number:
Computer Interface	NA Serial USB Bluetooth		Internal Communications Bus	SPI I2C CAN MOST

EMI/RFI Safety Testing

Tested to Comply	FCC	E-Mark	CE	E8	C-Tick	_____	_____
Listed	FCC	UL	ETL			_____	_____
Part or Test						_____	_____

Other Design Requirements:

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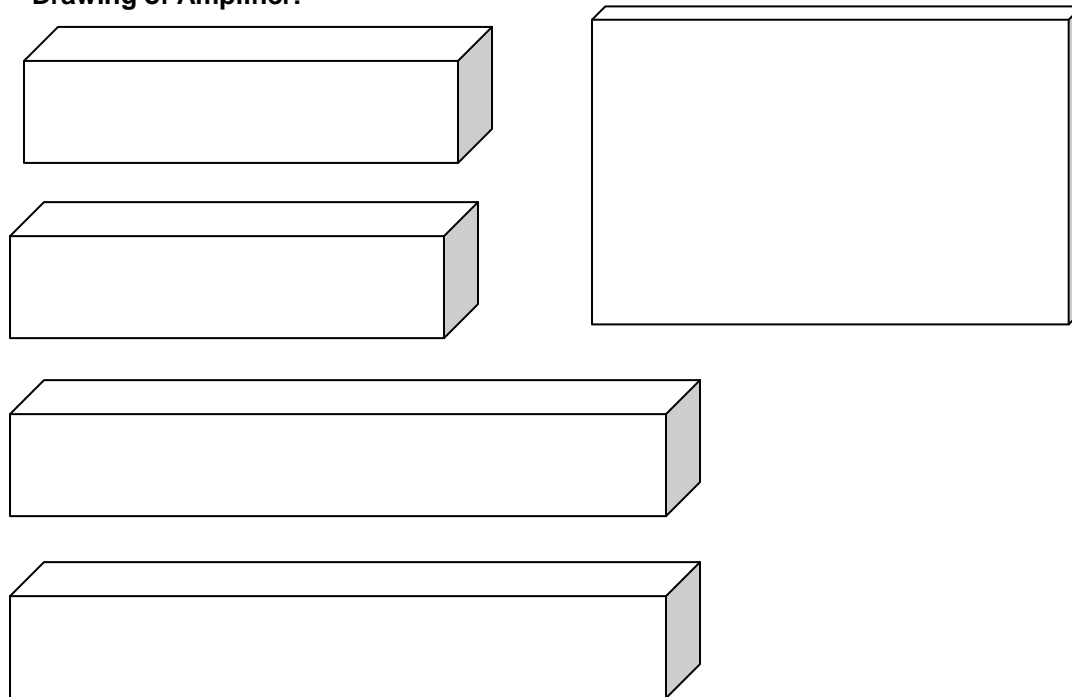


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Physical Design:

Power Terminal	Style:	Color:	Wire Gauge:
Speaker Terminal	Style:	Color:	Wire Gauge:
Gain Control Style		Color:	Knob:
Frequency Control Style		Color:	Knob:
Outside Finish Elements			
PCB	Solder Mask Color	Silk Color	Num of Layers

Drawing of Amplifier:



Cosmetic Notes:

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Terminal Options:

<http://www.songcheng.cn/en/products.asp?sid=16>

