



LATERAL MOSFETS



SPECIFICALLY DESIGNED FOR PROFESSIONAL AUDIO APPLICATIONS

ACD100NSD	ACD102PSD	ACD101NDD	ACD103PDD
V _{DSX} 200V	V _{DSX} 200V	V _{DSX} 200V	V _{DSX} 200V
V _{GSS} 18V MAX	V _{GSS} 18V MAX	V _{GSS} 18V MAX	V _{GSS} 18V MAX
I _D 12 AMP	I _D 12 AMP	I _D 24 AMP	I _D 24 AMP
I _{D(PK)} 12 AMP	I _{D(PK)} 12 AMP	I _{D(PK)} 24 AMP	I _{D(PK)} 24 AMP
P _D 150W	P _D 150W	P _D 250W	P _D 250W
T _J 150 °C	T _J 150 °C	T _J 150 °C	T _J 150 °C
Package TO247	Package TO247	Package TO3P/264	Package TO3P/264
Gate Source Cut off 0.15V – 1.4v	Gate Source Cut off 0.15V – 1.4v	Gate Source Cut off 0.15V – 1.4v	Gate Source Cut off 0.15V – 1.4v
Input Cap 900pF	Input Cap 800pF	Input Cap 1800pF	Input Cap 1600pF
Output Cap 400pF	Output Cap 350pF	Output Cap 800pF	Output Cap 700pF

These are a UK designed & manufactured product only available from Pro Audio or Semefab appointed distributors.

Advantages:

Easy & economical to build Hi/Low power, high quality audio amps.

Bipolar:

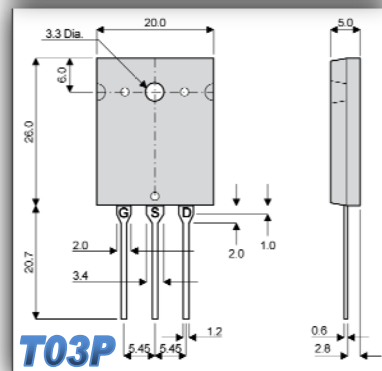
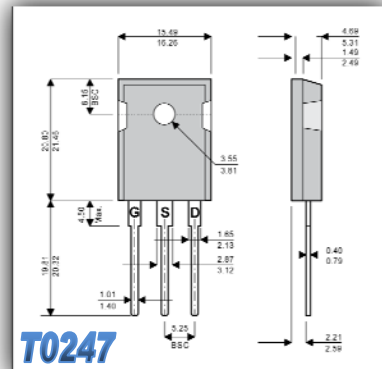
Suffer from thermal runaway, current hogging requiring large wattage emitter resistors to balance multiple devices. Complex expensive and unreliable temperature compensation biasing circuits.

Switching MosFet:

Suffer from thermal runaway, current hogging requiring large wattage emitter resistors to balance multiple devices. Complex expensive unreliable temperature compensation biasing circuits.

Class-D Amplifier:

Very complex to make, require filters to reduce RF & noise produced
 Difficult to run in multichannel configuration & with SMPs
 Because of RF & Switching loss, Interference, Heterodynes (warbles)
 this problem also manifests itself in excessive heat due to false switching
 and triggering From an audio point of view good for Bass
 but sadly lacking in quality top end.



PIN 1 = GATE
 PIN 2 = SOURCE
 PIN 3 = DRAIN

Alfet Amplifiers (Lateral MosFet)

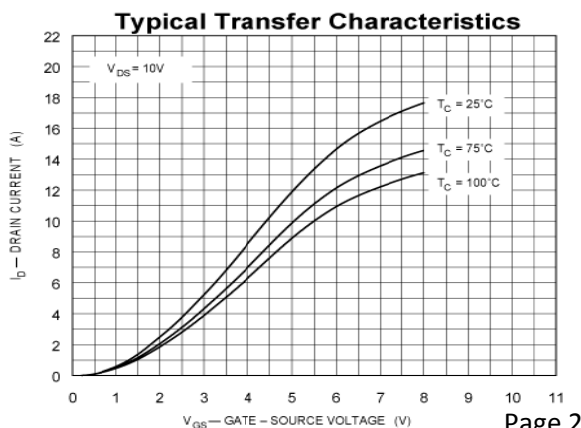
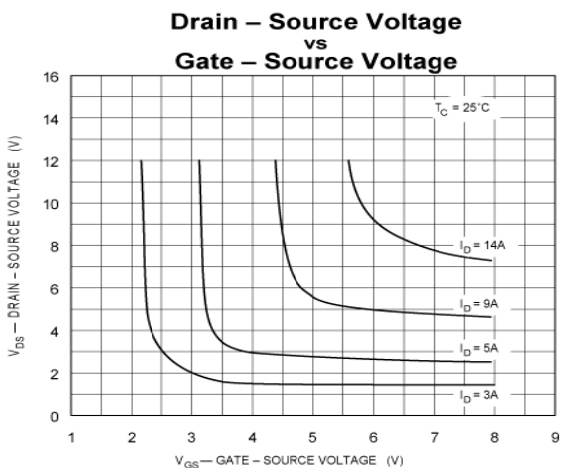
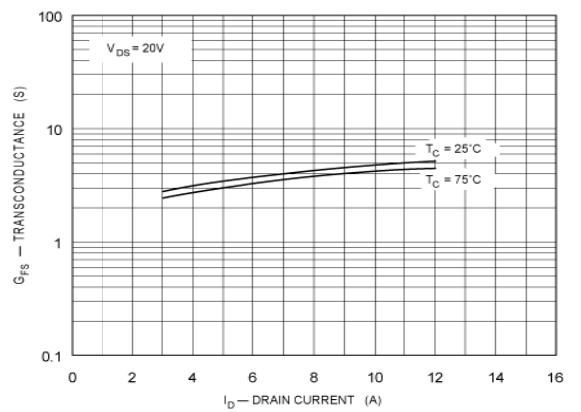
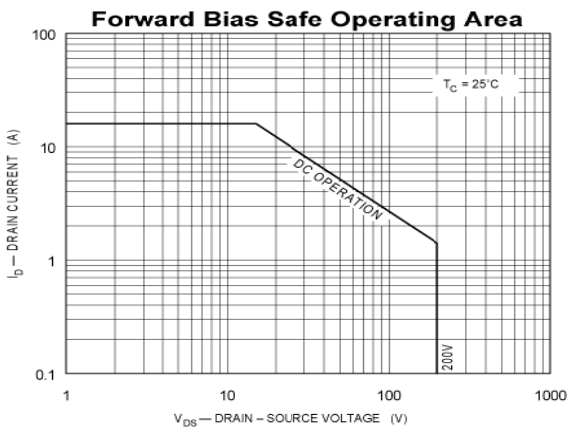
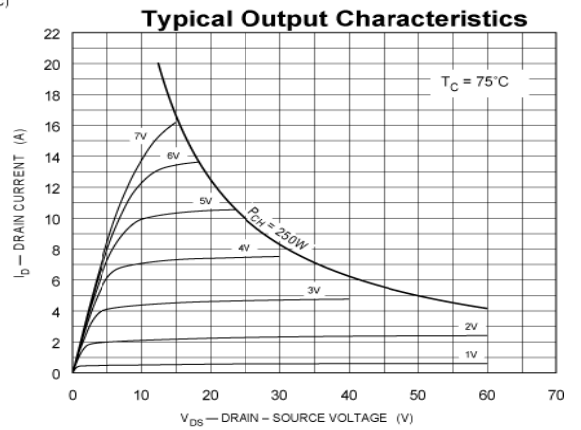
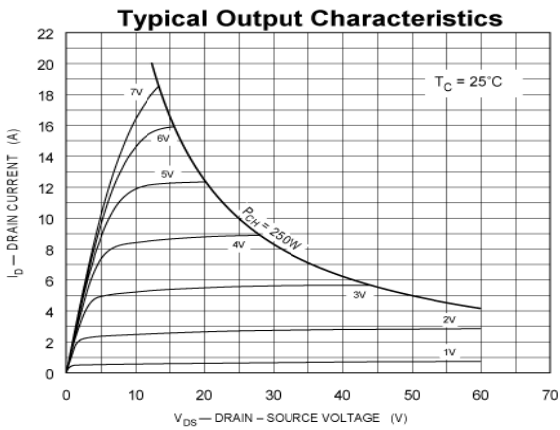
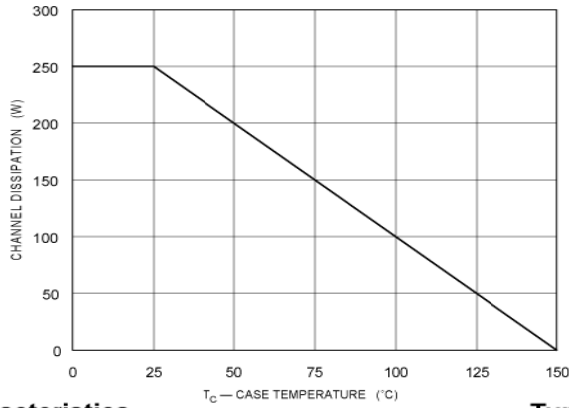
Have none of the above problems. Easy to use, can be run from SMPs. High Quality Sound. High Power
 Pro Audio is a part of Class-d Limited



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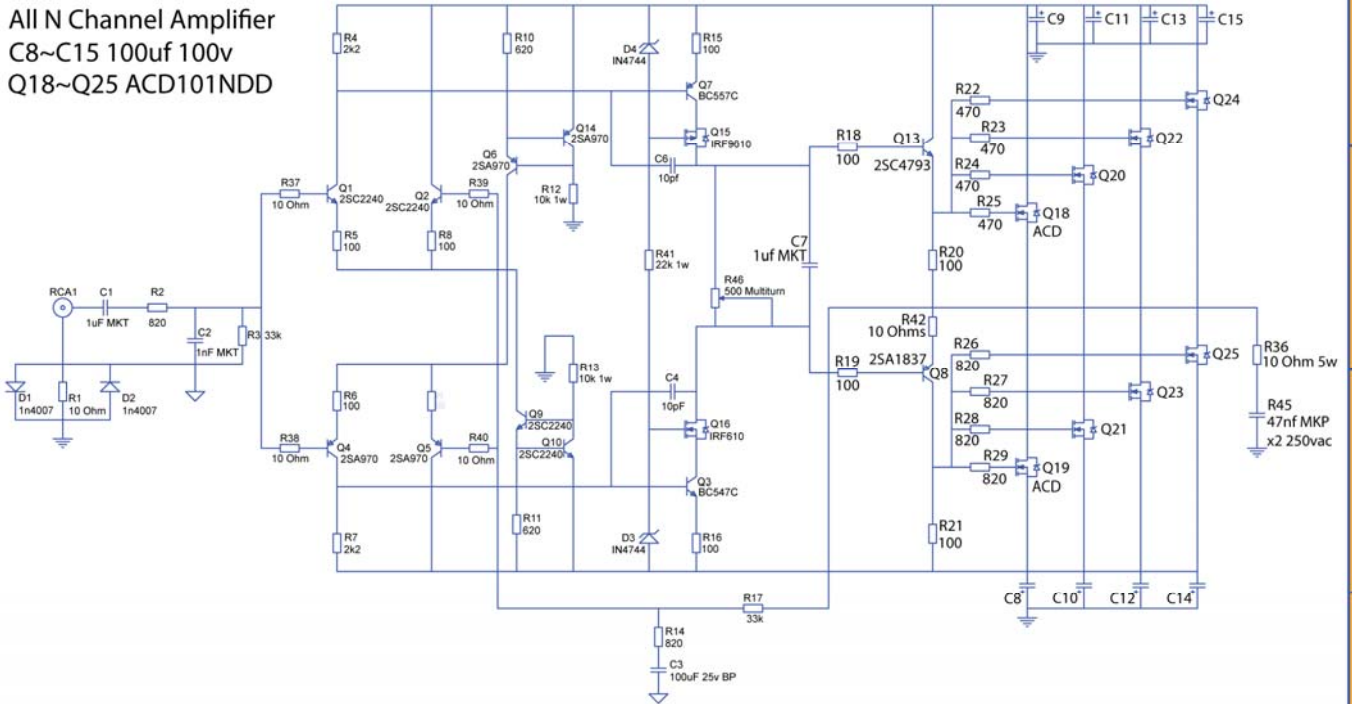


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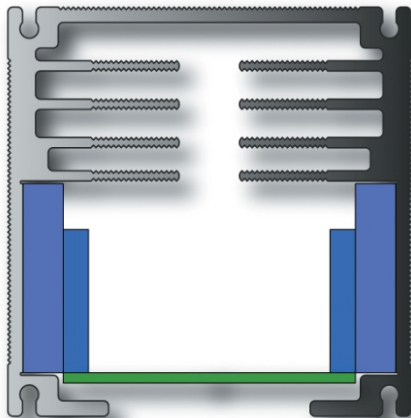
All N Channel Amplifier
 C8~C15 100uf 100v
 Q18~Q25 ACD101NDD



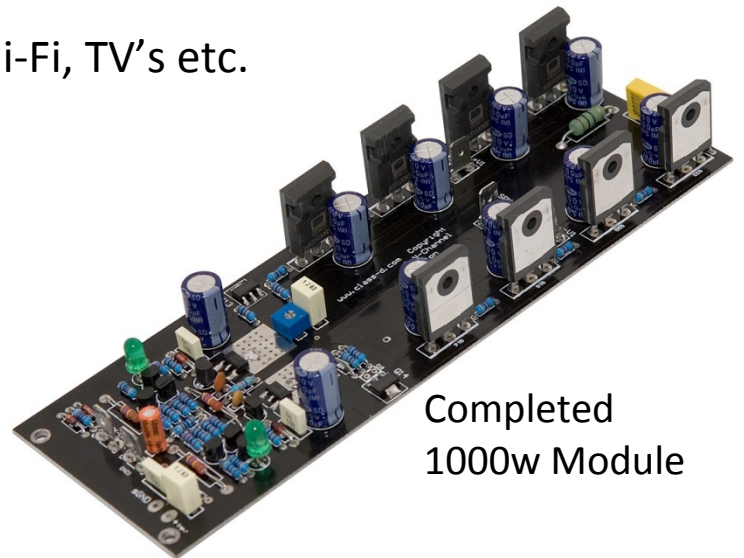
1000W PRO AUDIO

Suitable for Pro Audio, Home Hi-Fi, TV's etc.

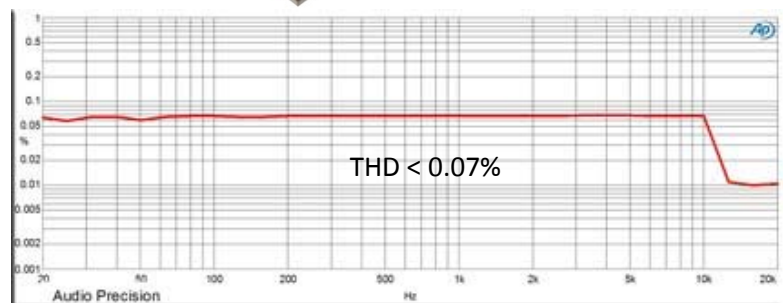
Thermally efficient
 Tunnel heatsink to fit
 module



THD Plot

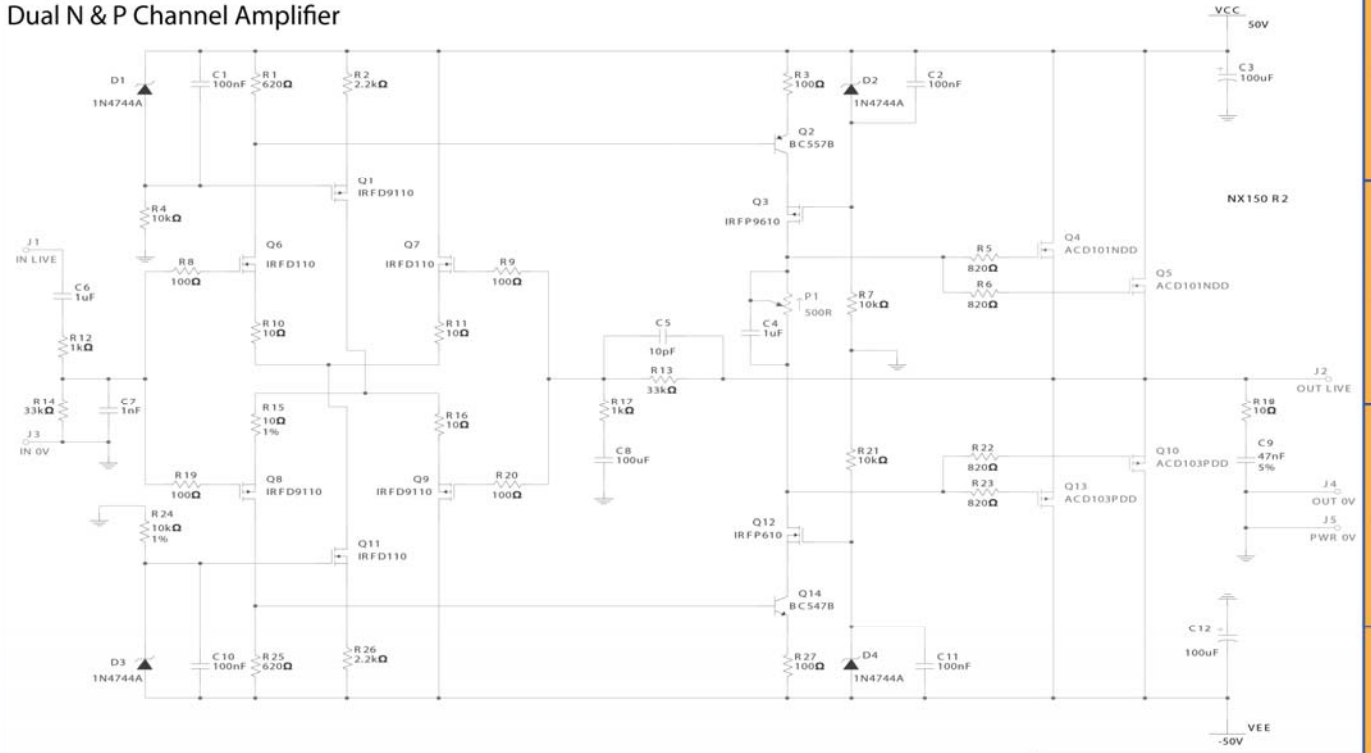


Completed
 1000w Module



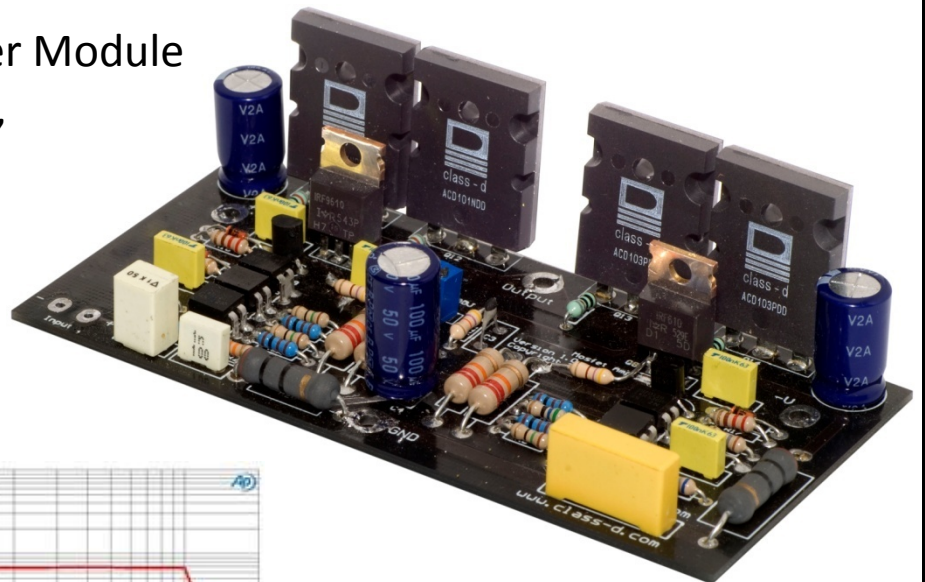
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Dual N & P Channel Amplifier

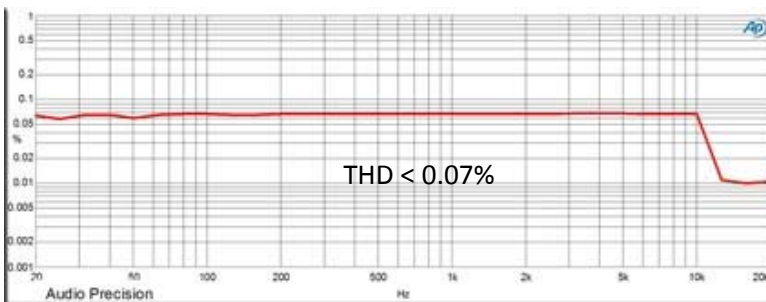


500w PRO AUDIO

NX150 Power Amplifier Module
Suitable for Pro Audio,
Home Hi-Fi, TV's etc.



THD Plot



Completed
500w Module