Silicon Carbide Class D Amplifier Module

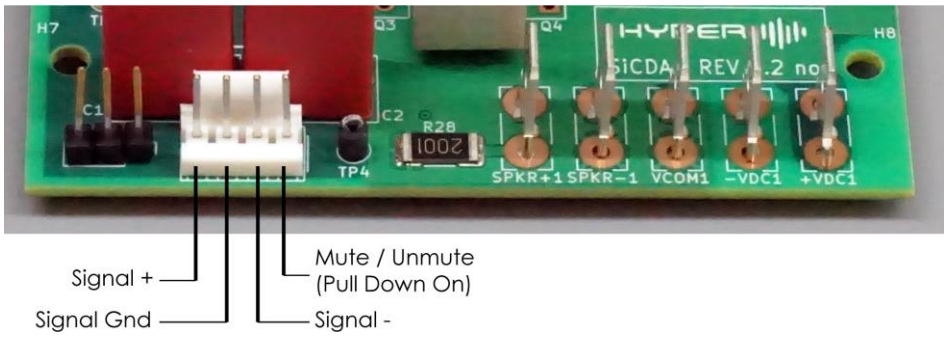
SiC-DAM

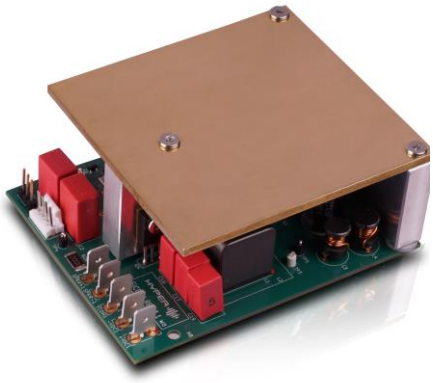
The Next Era of Class D Amplifiers

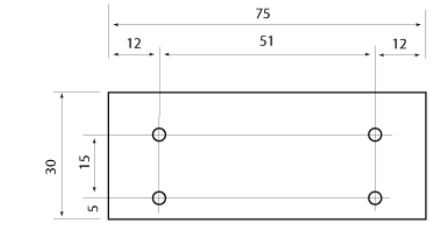
The SiC-DAM by Hyper Analogue Productions is a small, self-contained Class D Amplifier Module for all music amplification duties

Features

- 3rd Generation Silicon Carbide Power MOSFET
- 1MHz Switching Frequency
- Enough Feedback; optimized for music, not specifications
- Smooth, warm and musical
- Audiophile components selected via extensive listening
- Flexible – socket available for your preferred input buffer OpAmp
- "Almost Class A" ~25W heat dissipation at ± 75V
- 300W into 8Ω, 500W into 4Ω (power supply dependent)
- Wide operating range from ± 40V to ± 75V DC

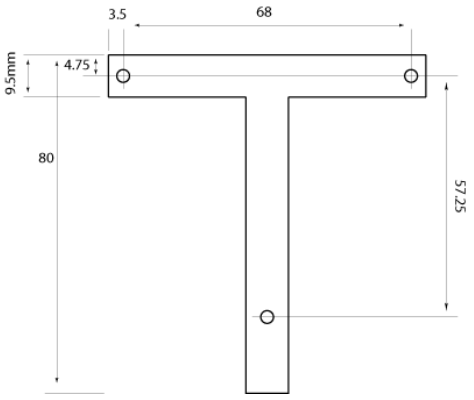


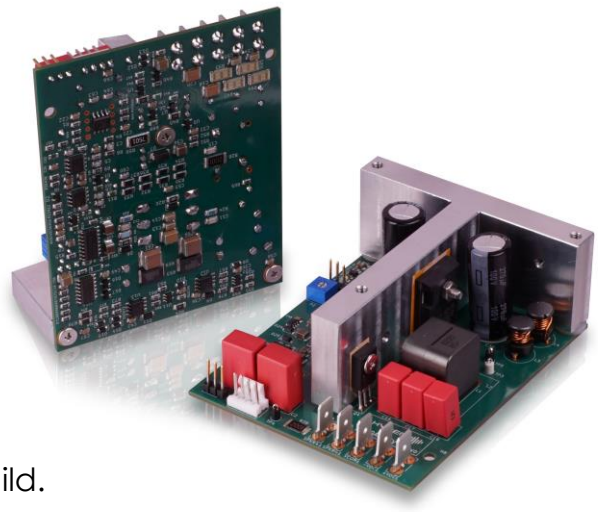




All dimensions in mm

Mounting points tapped for M3 screws





Specifications

Measurement data is based on reference build.

Description	Min	Typical	Max	Unit	Comments
Output Power at 4 Ω		500	550	W	with +/- 75V supplies
Output Power at 8 Ω		300		W	with +/- 75V supplies
Distortion THD		0.01	1.0	%	
Signal to Noise		-116dB			500W/4 Ω
Output Noise		66	80	µV	22Hz – 22kHz
Input Impedance		100k		Ω	Balanced
Output Impedance		0.03		Ω	@1kHz
Damping Factor		125			at 4 Ω @1kHz
Frequency Response	10		50k	Hz	+/- 1dB
Voltage Gain		26		dB	
Efficiency			82	%	at full power
Standby Current	165			mA	~25W @ +/- 75V
Output Current Limit		30		A	Limiting after 20mS

Recommended Operating Conditions

Description	Min	Typical	Max	Unit	Comments
Power Supply Voltage	+/- 45	+/- 70	+/- 85	V	DC
Load Impedance	1.5	4	-	Ω	
Source Impedance		100k		Ω	Differential input
Power Supply Capacitance	4700	15000	-	µF	Per rail

For more information, contact us at:

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