



# Silicon Carbide Class D Amplifier Module

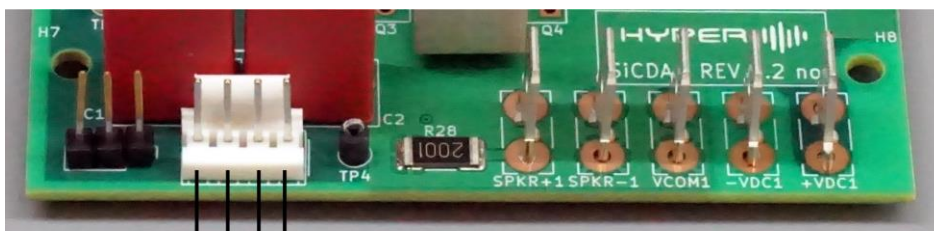
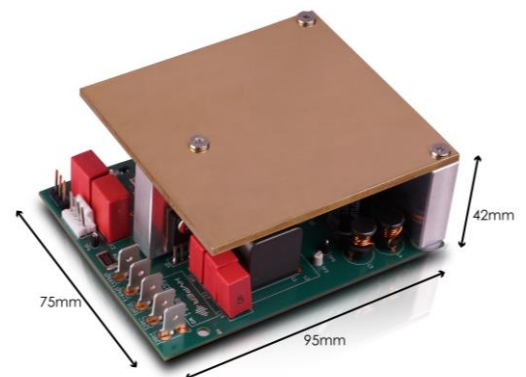
## SiC-DAM

### The Next Era of Class D Amplifiers

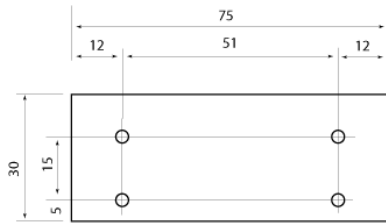
*The SiC-DAM by Hyper Analogue Productions is a small, self-contained Class D Amplifier Module for all music amplification duties*

## Features

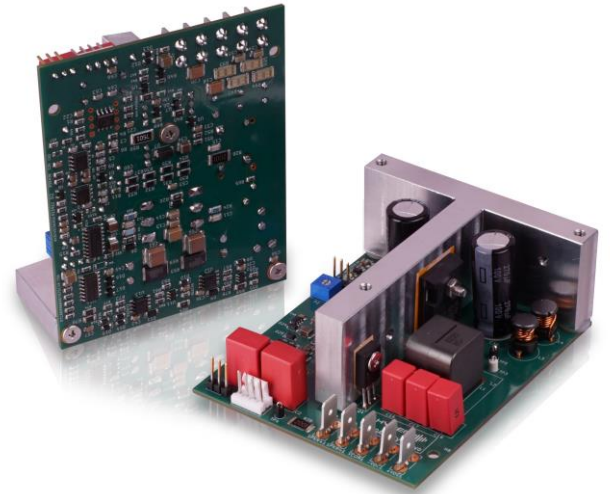
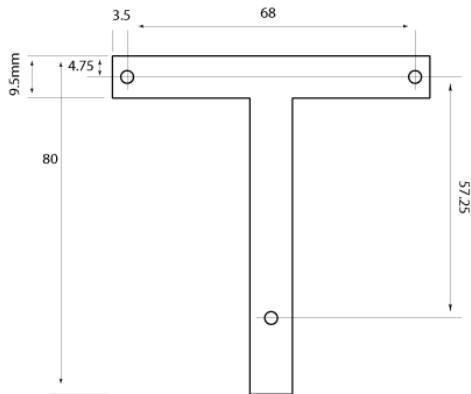
- ✚ 3<sup>rd</sup> Generation Silicon Carbide Power FET (MOSFET → GaNFET → SiCFET)
- ✚ 1MHz Switching Frequency with dead-time in picoseconds
- ✚ Low Feedback; optimized for music, not specifications
- ✚ Smooth, warm and musical
- ✚ PCB design and layout, PCB finish, solder paste and components selection optimized for tone, timbre, and timing
- ✚ Flexible – socket available for your preferred input buffer OpAmp
- ✚ “Almost Class A” ~25W heat dissipation at  $\pm 75V$
- ✚ 300W into 8 $\Omega$ , 500W into 4 $\Omega$ , 900W into 2 $\Omega$   
(power supply dependent)
- ✚ Wide operating range from  $\pm 40V$  to  $\pm 75V$  DC



Signal +  
Signal Gnd  
Mute / Unmute  
(Pull Down On)  
Signal -



All dimensions  
in mm  
Mounting points  
tapped for M3 screws



## Specifications

Description	Min	Typical	Max	Unit	Comments
Output Power at 4 $\Omega$		500	550	W	with +/- 75V supplies
Output Power at 8 $\Omega$		300		W	with +/- 75V supplies
Distortion THD		0.01	1.0	%	
Signal to Noise		-116dB			500W/4 $\Omega$
Output Noise		66	80	$\mu$ V	22Hz – 22kHz
Input Impedance		100k		$\Omega$	Balanced
Output Impedance		0.03		$\Omega$	@1kHz
Damping Factor		125			at 4 $\Omega$ @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
Weights and Dimensions	95mm x 75mm x 42mm : 350g				

## Recommended Operating Conditions

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

For more information, contact us at:  
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