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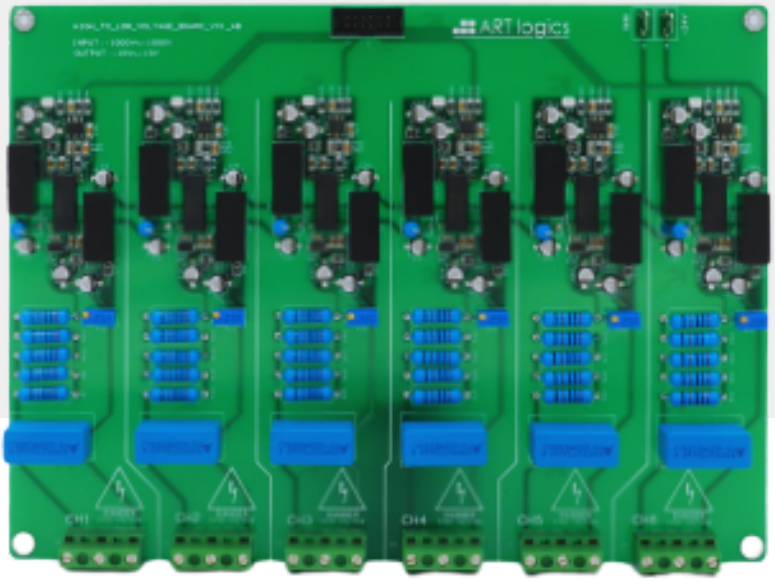
High to Low Voltage Front Module



OVERVIEW

High to Low Voltage Front Module is designed to convert high volt signal to low volt signal. At the same time, isolate high volt side and low volt side. There are 6 channels in one 242mmX175mm board.

KEY FEATURES

- 6 channels high voltage signal to low voltage converter.
- High volt side and low volt side are isolated.
- Each channel has the same functions but is independent.
- Differential input and differential output.

DIMENSION

L*W = 175mm x 242mm

VOLTAGE RANGE

Input:-1000V~+1000V
Output:-10V~+10V

POWER REQUIREMENT

DC Power Supply: +24V , 265mA+/-10mA

DETAILED SPECIFICATIONS:

Input Characteristics	Value	Unit
Voltage Range	+/-1200V(max)	V

Output Characteristics	Value	Unit
Transfer Function	Vout=Vin/100	
Output Current	10mA	mA
Accuracy	0.1%	

Frequency Response	Value	Unit
Bandwidth(max)	20KHZ	KHZ

Isolation	Value	Unit
Continuous Isolation Voltage	1500Vrms	

Adjustable Potentiometers Function:

Name	Comment
R12	Channel1 Output Scale Factor Adjust
R23	Channel2 Output Scale Factor Adjust
R35	Channel3 Output Scale Factor Adjust
R47	Channel4 Output Scale Factor Adjust
R59	Channel5 Output Scale Factor Adjust
R71	Channel6 Output Scale Factor Adjust

input connectors PIN definition:

Connector	Pin Number	Description	Comment
J1	1	Channel1 input+	Channel1 differential input
	3	Channel1 input-	
J2	1	Channel2 input+	Channel2 differential input
	3	Channel2 input-	
J3	1	Channel3 input+	Channel3 differential input
	3	Channel3 input-	
J4	1	Channel4 input+	Channel4 differential input
	3	Channel4 input-	
J5	1	Channel5 input+	Channel5 differential input
	3	Channel5 input-	
J6	1	Channel6 input+	Channel6 differential input
	3	Channel6 input-	

J7: Output Connector Pin Definition:

Pin Number	Description	Comment
1	Output1+	Channel1 Differential Output
2	Output 1-	
3	Output 2+	Channel2 Differential Output
4	Output 2-	
5	Output 3+	Channel3 Differential Output
6	Output 3-	
7	Output 4+	Channel4 Differential Output
8	Output 4-	
9	Output 5+	Channel5 Differential Output
10	Output 5-	
11	Output 6+	Channel6 Differential Output
12	Output 6-	

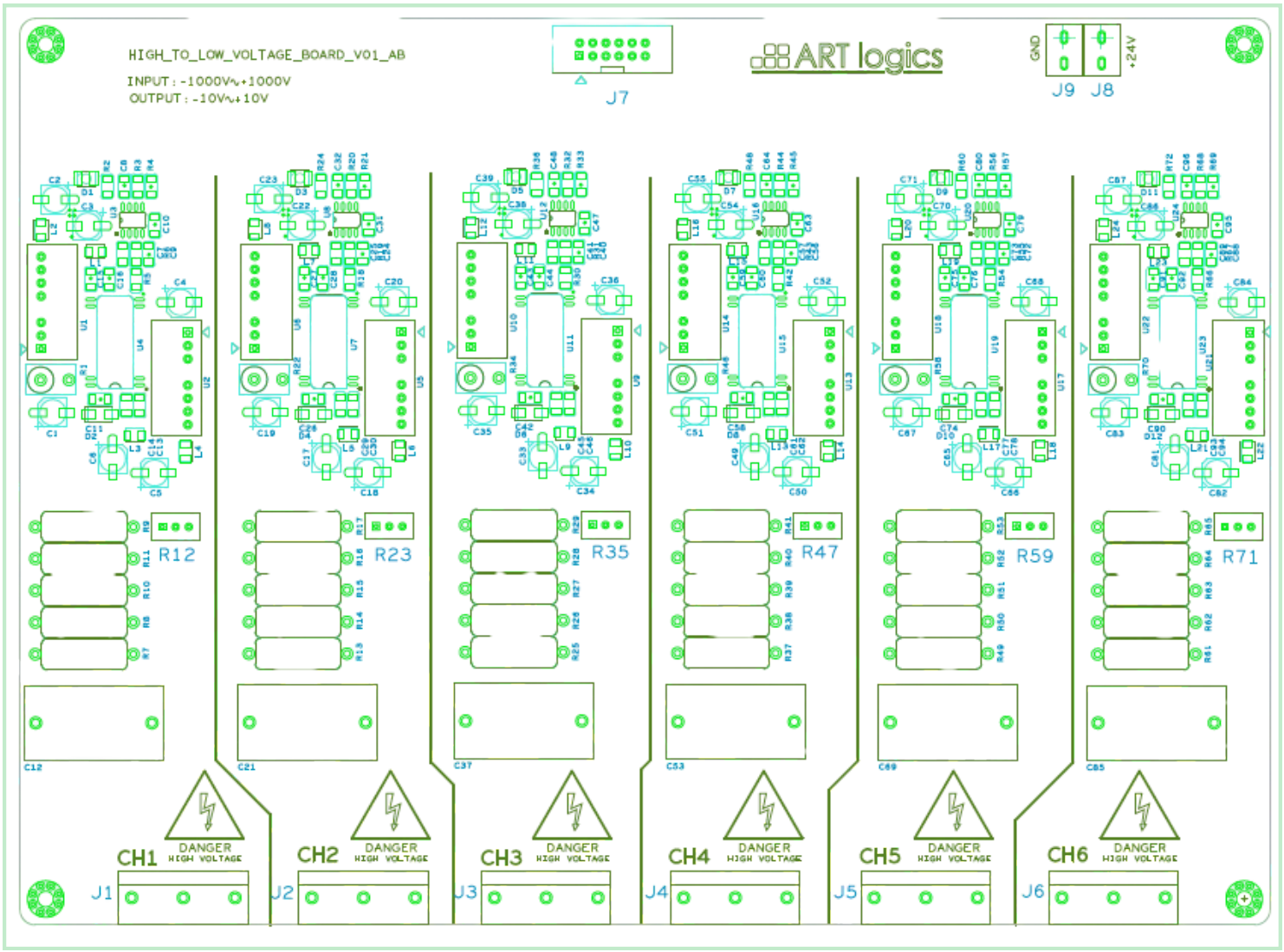
J8 J9 are power fastons:

- J8: 24V+
- J9: 24V_GND

Power Requirement:

DC power supply:
This board is powered by +24V and the working current is 265mA+/-10mA.

CONNECTION:



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