

DCB411 - 16 CHANNELS SiPM AMPLIFIER

The desktop module N411 has 16 channels amplifiers specially designed for HAMAMATSU MPPC S10931-050P type detector. The module has two version: with bias and without bias tension. The amplifier has 50 Ω input

impedance and amplified output signal can be terminated by 50 Ω . The module has 16 input (isolated connectors - with bias tension) and 16 output LEMO type connectors, power and Bias connectors (with bias tension).

PERFORMANCE

Input impedance	50 Ω
Rise/fall time	25 ns
Gain*	35 dB
Output range voltage	2 V
Termination	50 Ω
Gain temperature coefficient	0,03%/C
Input equivalent Noise	8 μ V RMS
Maximum Bias Value	250 VDC
Input, Output connectors	LEMO type connector
Bias connector	Sub D 9 pins

POWER SUPPLY CONNECTOR

Connector type D9 (9 pin)

1	GROUND
2	GROUND
3	+6 V
4	N.C.
5	N.C.
6	N.C.
7	N.C.
8	-12 V
9	N.C.

BIAS VOLTAGE CONNECTOR

Connector type D9 (9 pin)

case	EARTH
2	BIAS 1
3	BIAS 2
4	BIAS 3
5	BIAS 4
6	GND 1
7	GND 2
8	GND 3
9	GND 4

Bias 1 is connected to 13,14,15,16 channels

Bias 2 is connected to 12,11,10,9 channels

Bias 3 is connected to 8,7,6,5 channels

Bias 4 is connected to 4,3,2,1 channels



POWER SUPPLY REQUIREMENTS

The module has two power supply voltages.

P. Voltage (V)	Current/ch (mA)
+6	210
-12	90

DIMENSIONS

dimensions	160x165x51,5 mm
weight	1 kg