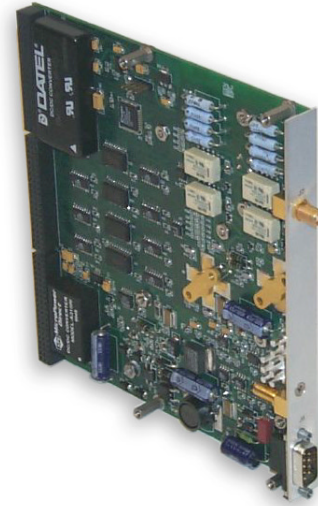


This product is manufactured by C&H Technologies, Inc. and exclusively distributed by Racal Instruments, Inc.

## Pulse Amplifier Model M205

The M205 is a programmable pulse amplifier that accepts a fixed level input pulse and provides a variable level output. The output level is programmable up to 25 V into a 50  $\Omega$  load (50V into no load). The output pulse can be either positive or negative with respect to chassis (connector) ground. An isolated external 36 V supply is required. An external power interlock signal is provided for control of the external power supply.



### SPECIFICATIONS

#### Number of Channels

1

#### Frequency

20 MHz max

#### Input

TTL

#### Output Impedance

50  $\Omega$

#### Output Amplitude (into 50 $\Omega$ )

Positive: 0 V to +25 V

Negative: 0 V to -25 V

#### Programming Resolution

0.10 to 2.5 V range: 0.625 mV

0.42 to 10 V range: 2.50 mV

1.25 to 30 V range: 7.50 mV

#### Accuracy

0.10 to 2.5 V range:  $\pm 124$  mV

0.42 to 10 V range:  $\pm 495$  mV

1.25 to 30 V range:  $\pm 1.24$  V

#### Rise/Fall Time

$R_L = 50 \Omega$  ( $\leq 20$  V or  $\leq 1$  MHz): 30 ns

$R_L = 50 \Omega$  ( $> 20$  V and  $> 1$  MHz): 40 ns

#### Inputs/Outputs

Pulse input

Pulse output

External power

External power interlock

#### Front Panel Connectors

Pulse Input/Output: SMA

Ext. Power and Interlock: 9-pin DSUB

#### Power (typical)

+ 5 V: 160 mA

+12 V: 600 mA

-12 V: not used

Ext. 36 V Isolated: 1.5 A

#### M-Module Compliance

Complies with ANSI/VITA Std.

12-1996 for triple-wide

MA- Modules

Data Transfers: 16-bit

Interrupts: not supported

Triggers: not supported

Compatible with VXI, VME, PCI,

cPCI and other M-Module

carriers

#### Applications

Pulse amplification

Pulse level shifting

#### Ordering Information

Part Number: 11028440-0001