

# LINEAR BRUSH SERVO AMPLIFIERS SMA5005 MODULE MODEL NUMBERING

This section explains the model numbering system for Glentek's SMA5005 Series High Performance Linear Brush servo amplifier. The model numbering system is designed so that you, our customer, will be able to quickly and accurately create the model number for the amplifier that best suits your needs.

## *SMA5005 Amplifier Model Numbering*

The following tables are used to fill in the different parts of the model number. Refer to these when constructing a model number for your requirements.

<b>XXX</b>	<i>Power Board Configuration Code</i>	<i>I<sub>c</sub></i> <i>(Amps continuous)</i>	<i>I<sub>p</sub></i> <i>(Amps Peak)</i>
000	24 to 55 VDC	5	10

### LOGIC INPUT CONFIGURATION DESCRIPTION:

There are four logic inputs: Limit+, Limit-, Inhibit and Reset In. They may be configured for active-high or active-low signals and pull-up or pull-down termination (type A, B, C and D). All logic inputs have selectable 0 to +5VDC or 0 to +15VDC range. Following is a description of the various types (A, B, C and D) and how they apply to the inhibit input:

Type "A": Requires grounding of input to disable the amplifier (pull-up, active-low).

Type "B": Requires a positive voltage at input to disable the amplifier (pull-down, active-high).

Type "C": Requires grounding of input to enable the amplifier (pull-up, active-high).

Type "D": Requires a positive voltage at input to enable the amplifier (pull-down, active-low).

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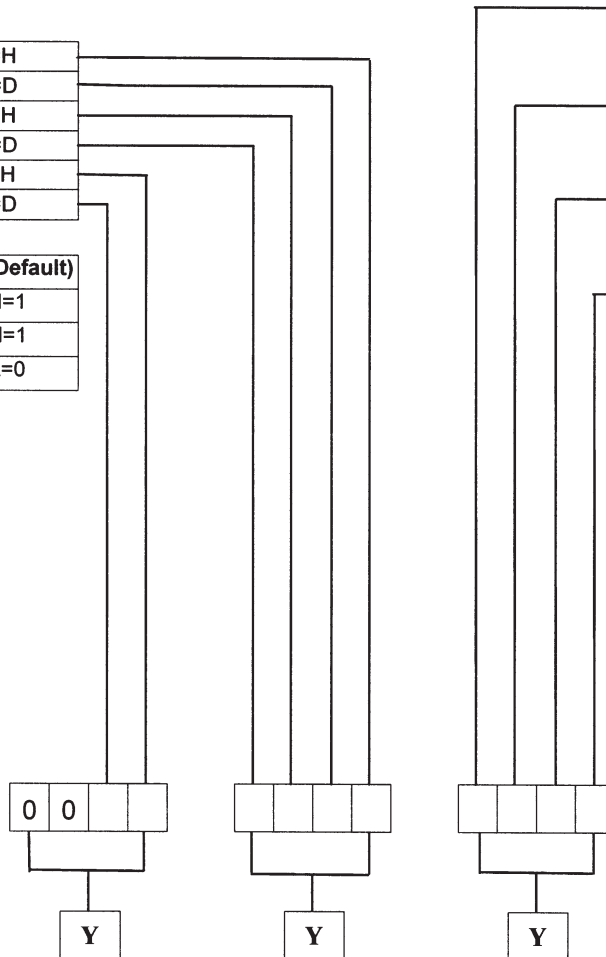
## YYY – Amplifier Configuration Code

$\pm$ Limit	0=L, 1=H
$\pm$ Limit	0=U, 1=D
Inhibit	0=L, 1=H
Inhibit	0=U, 1=D
Reset	0=L, 1=H
Reset	0=U, 1=D

Type A:	U=0 & L=0 (Default)
Type B:	D=1 & H=1
Type C:	U=0 & H=1
Type D:	D=1 & L=0

Differential or Single-ended Signal Inputs:	0 = Single; (Default) 1 = Differential
Velocity or Current Mode	0 = Velocity 1 = Current
On Board Power Supply +15V/+5V on pull-up:	0 = +15V; (Default) 1 = +5V
DC Buss Voltage	0 = 24 VDC - 55 VDC 1 = SPECIAL

4-BIT Binary to Hex Conversion Table	
0000=0	1000=8
0001=1	1001=9
0010=2	1010=A
0011=3	1011=B
0100=4	1100=C
0101=5	1101=D
0110=6	1110=E
0111=7	1111=F



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## *SMA5005 Module*

### **SMA5005 – XXX - YYY - 1**

Model number key:

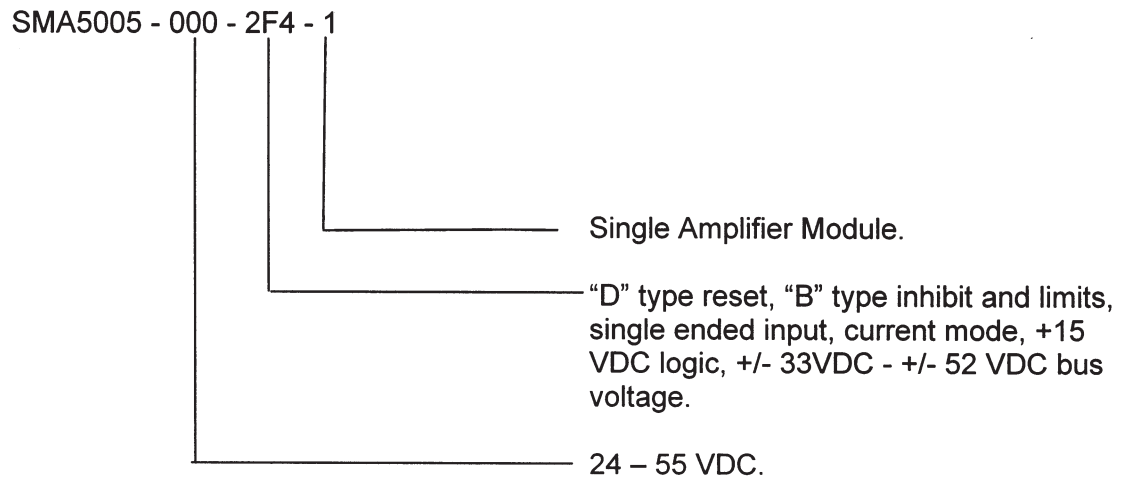
**SMA5005** - Designates a Brush Type Linear Surface Mount Amplifier.

**XXX** - Power board configuration code.

**YYY** - Amplifier configuration code.

**1** - Single Amplifier Module.

Example:



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