



BBG-SBA2

Synchro Booster Amplifiers

Description

The Synchro Booster Amplifier (SBA) is a stand-alone system, which provides amplification of synchro signals. The SBA series of amplifiers are designed to be conduction cooled by mounting directly to the chassis.

The SBA is factory configurable to customer requirements for easy field installation. Models available include 6.81V resolver, 11.8V and 90V synchro at both 60 and 400 Hertz.

picture not available

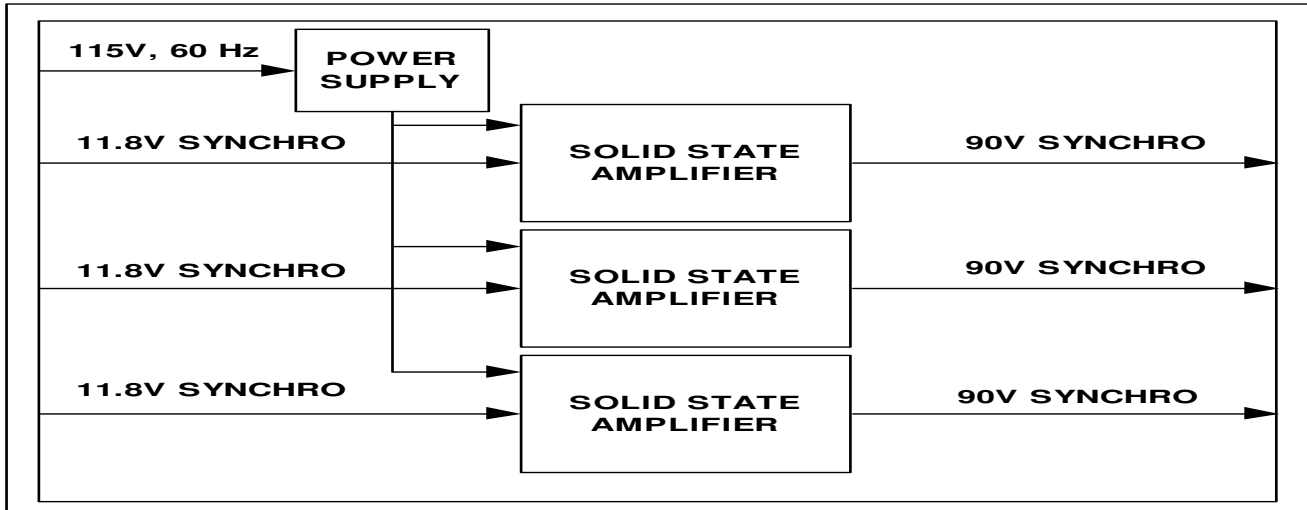
Applications

- Radar Systems (antenna azimuth)
- Navigation Systems (gyrocompass, speedlog, course, pitch, and roll)
- Industrial Processes (position, velocity)
- Meteorology Instruments (wind speed and direction)

Features

- 6.81Vrms Resolver
- 11.8 or 90 Vrms Synchro
- High Efficiency
- 6VA Output
- Short Circuit and Transient Protected
- Temperature Protected
- Enable, BIT and Kick Circuitry



Chart**Overview**

The BBG-SBA operates on 115 Volt, 60 Hz or 400 Hz AC reference power to convert low power synchro or resolver inputs into high power synchro outputs. Due to the pulsating power supply, the device operates more efficiently allowing for smaller size. The SBA is current limited and voltage protected against reference and load short circuits and transients. Thermal protection is provided for temperatures in excess of +125 °C. In addition, the SBA provides Enable, BIT and Kick circuitry for added control and protection.



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Technical Specifications

Parameter	Value	Units
Reference Input	115	Volts AC
	60/400	Hertz
	1	Amps
Temperature Range		
Operating	-25 to +85	°C
Storage	-65 to +125	°C
Inputs		
Synchro/Resolver	6.81, 11.8 or 90	Volts
	60/400	Hertz
	<20	Milliamps
Outputs		
Synchro (1:1)	90	Volts
	60/400	Hertz
	6	VA
Accuracy	+/-4	arc minutes
Dimensions	5.0 x 7.0 x 2.0	in
	12.7 x 17.8 x 5.1	cm



INPUTS/OUTPUTS

Inputs and outputs are available on standard 25 pin D type connectors provided with the SBA. Inputs and outputs are listed below:

I/O CONNECTOR TYPE: DB25M

CONNECTOR MATE: DB25F

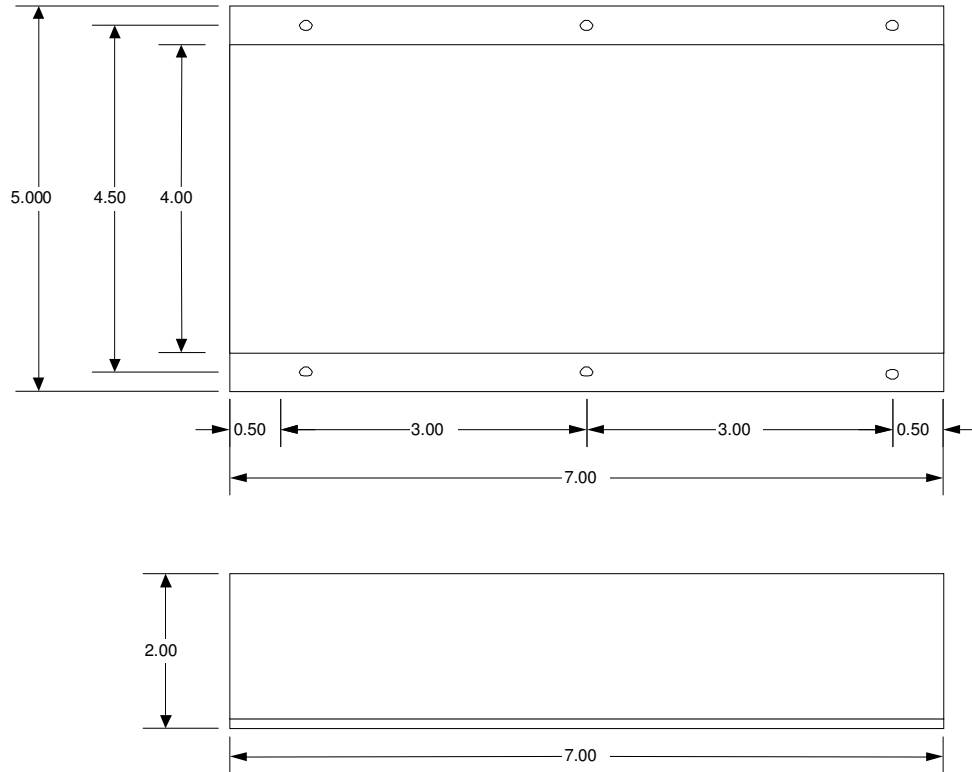
PIN NO	SIGNAL	PIN NO	SIGNAL
1	+5V	14	Disable (INPUT)
2	BIT (OUTPUT)	15	N/C
3	N/C	16	GND
4	S1 (OUTPUT)	17	S3 (OUTPUT)
5	TP	18	CO
6	KICK	19	N/C
7	TP	20	TP
8	TP	21	S2 (OUTPUT)
9	S1 (INPUT)	22	N/C
10	S3 (INPUT)	23	R2 (INPUT)
11	S4 (INPUT)	24	R1 (INPUT)
12	S2 (INPUT)	25	N/C
13	TP		

NOTES:

1. S4 used for resolver signals only.
2. N/C means no internal connection.
3. TP are test points intended for factory use only.



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Mechanical Information**NOTES:**

1. Dimensions are in inches.

