

BII-2000 Series Specification

AGC Amplifier	BII-2001	BII-2002	BII-2003
Input Level Range:	2 mVpp to 20 Vpp	100 μ Vpp to 1 Vpp	20 μ Vpp to 0.2 Vpp
Input Impedance:	1 k Ω	10 M Ω	10 M Ω
Input Type:	Single Ended	Differential and Single ended	Differential and Single Ended
Noise (RTI):	< 100 nV/VHz	8nV/VHz; 0.3pA/VHz	8nV/VHz; 0.3pA/VHz
Current (Quiescent):	16 mA @ +24 VDC	17 mA @ +24 VDC	18.5 mA @ +24 VDC

Miscellaneous: BII-2000 Series AGC Amplifier

Operating Frequency:	Available Frequency: 1 to 500 kHz.
Bandpass Filter:	1. Default: Q=2 2. Customized, specify when ordering Note: Q = Operating Frequency/Bandwidth.
Input Dynamic Range:	80 dB
Output Level:	0.2 to 2.0 Vpp
Input Wiring:	1. Single ended: 0.15m Coax, BNC male, Label "1" (Coax) 2. Differential: 0.15m shielded cable, wire leads, Label "1" (SC)
Output Wiring:	1. 0.15m Coax, BNC male, Label "2" (Coax) 2. 0.15m shielded cable, wire leads, Label "2" (SC)
Output Type:	Single Ended
Output Impedance:	100 Ω
Capability of Driving Cable:	20m
Power Supply Wiring:	Power Supply: 0.15m Shielded Cable, Wire Leads
Supply Voltage:	+16 to +30 VDC
Suggested DC Supply:	+9VDC Battery, Marine Battery, Automobile Battery, Fixed DC Linear Power Supply, Not Included. DO NOT use variable power supply whose maximum supply voltage is higher than the above rated voltage. DO NOT use switching mode DC power supply.
Package:	1. Default: coated PCB (PCB); 2. Potted Unit (PU)
Size (Φ D x H):	60 x 15 mm
Operating Temperature:	-40°C to 85°C
Storage Temperature:	-50°C to 105°C

Wiring	Description	Description
Input	0.15m Coax with BNC, Label "I"	0.15m Shield Cable/Wire Leads, Label "I" White: Signal; Black: Common; Shield: Shielding
Output	0.15m Coax with BNC, Label "O"	0.15m Shield Cable/Wire Leads, Label "I" White: Signal; Black: Common; Shield: Shielding
Power Supply	0.15m, Wire Leads. Red wire: +VDC; Black Wire: Common and Shielding	0.15m, Wire Leads. Red wire: +VDC; Black Wire: Common and Shielding

