

The LIA003 is used to improve received system performance across the band 100-500MHz. By using a low noise amplifier overall system noise figure is improved.

An optional filter is available based on the FL022 notch filter, This can be integrated into the Amplifier providing rej. 88-108MHz, Bandpass 120-500MHz

The LIA003 is designed to fit to Stancoms 2U high mounting panel for LIAxxx amplifiers

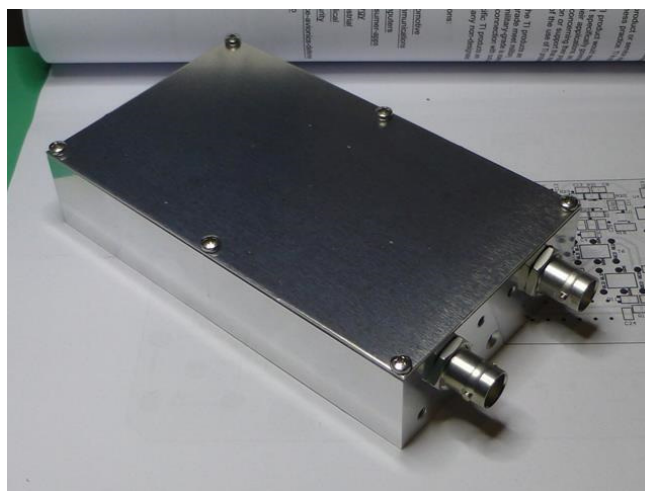


Figure 1 – LIA003

Specification:

Parameter (Masthead)	Limits
Frequency Range	100 – 500MHz. (120-500MHz with notch fitted)
Gain	20dB Typical. (-1.5dB increase @ 120MHz,with notch filter fitted)
Gain Ripple	+/-1dB.
Noise Figure with Filter	Typ 1dB. (Max 2dB)
TOIP	>+30dBm
Optional Notch filter band	88-108MHz.
Option Notch filter rej.	<-30dB Min , (typ 35-50dB)
Input return loss	< -14dB. (VSWR Better than 1.5:1)
Output Return Loss	< -14dB. (VSWR Better than 1.5:1)
Connector loss	< 0.2dB
Input Impedance	50Ω
Output Impedance	50Ω
Connectors	BNC Female.
Voltage	15 – 24V.
Current	130mA Typ.
Lightning Protection (Input)	2kV 1.2uS rise time, 50uS duration. (IEC61000-4-5 Level 3)

Mechanical:

Case Size.	132 x 76 x 28mm (Excluding Connectors)
Weight:	0.5kg
Material	Aluminium Main housing with aluminium cover.

Environmental:

Temperature:	0 to +50 °C
Weatherproofing	Indoor Use Only