

## A12-1090-A & BT12-A

### Low Noise 1090MHz Preamplifier & Bias Tee

#### Overview

The **A12-1090-A** is a Low Noise Preamplifier designed to improve the reception of the S/ADS mode B beacons sent out by the commercial aircrafts at 1090MHz.

It is provided with a waterproof ABS case suitable for a 44mm (max) diameter mast.

The **BT12-A** Bias Tee is to be used to insert a 12Vdc power supply to feed the amplifier through the coaxial cable.

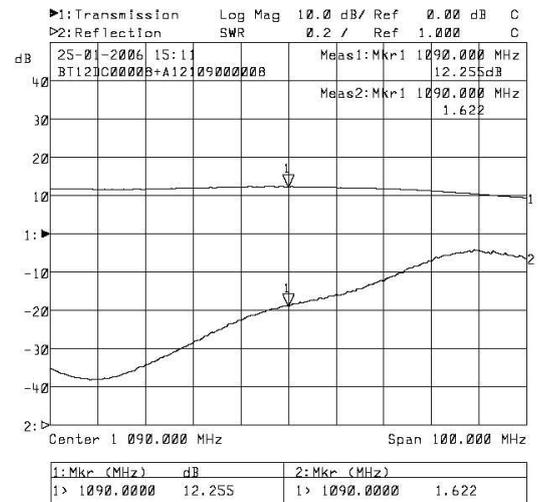
Supplied with of all the needed accessories for an easy installation on the mast.

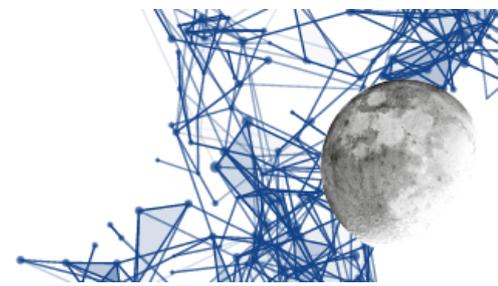


#### Typical Lab Test Report

Test BT12-A ON	
GAIN @1090MHz	> 11.0 dB
VSWR INPUT @1090MHz	< 1:1.5 (RL < -15 dB)

Test BT12-A OFF	
INSERTION LOSS @1090MHz	< 2 dB
VSWR INPUT @1090MHz	< 1:2 (RL < -10 dB)
INSERTION LOSS BT12-A @1090MHz	< 0.8 dB





## General Specs and Features

A12-1090-A - Low Noise Preamplifier	
Frequency Range	1030MHz – 1090MHz
Input Connector	N female
Output Connector	N female
Gain	12 dB
Noise Figure (max)	0.9 dB
Power Supply	+12Vdc
DC Max Input Level	+2 dBm
Current Consumption	100mA
Dimensions (mm)	75 x 95 x 45
Internal Case	Plated Steel
External Case	ABS Waterproof



BT12-A - 12Vdc Bias Tee	
Input Connector	N female
Output Connector	BNC female
Noise Figure (max)	0.9 dB
Input Power Supply	+12Vdc (2.1mm socket)
Dimensions (mm)	80 x 73 x 27
Case	Plated Steel



## Package Contents

- A12-1090-A Preamplifier
- Waterproof ABS case
- Bracket, screws and nuts
- BT12-A Bias Tee
- Jack connector with solder contacts

