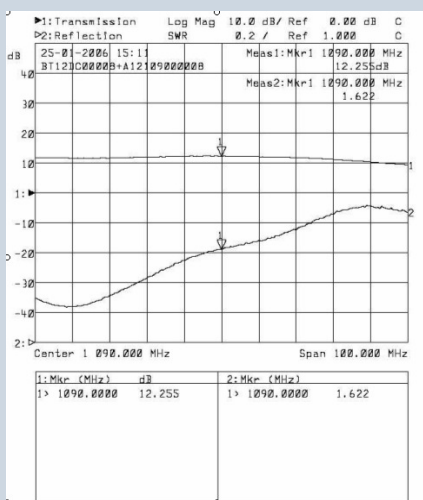


A12-1090

Low Noise 1090 MHz Preamp & Bias Tee

The A12-1090 is a Low Noise Amplifier designed to improve the reception of the S/ADS mode B beacons sent out by the commercial aircrafts at 1090 MHz. It can be conveniently used with the Kinetic Avionic SBS-I Virtual Radar where an external antenna is used with a long run of coax cable to improve the Noise Figure of the overall system. It is provided with a waterproof ABS case suitable for a 44 mm. max diameter mast and a Bias Tee to insert a 12 V DC power supply to feed the amplifier through the coax cable. Supplied complete of all the needed accessories for an easy installation on the mast.



Typical Lab test report

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

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

General Specs and features



Model	A12-1090 Low Noise Amplifier
Frequency range	1030 MHz ÷ 1090 MHz
Input connector	N - female
Output connector	N - female
Gain	12 dB
N.F. max.	0.9 dB
Power supply	+ 12 V
DC Max input level	+2 dBm
Current consumption	100 mA
Dimensions mm.	74 × 93 × h45
Internal Case	Plated Steel
External Case	ABS waterproof



Model	BT-12 DC Bias Tee to insert a +12 V DC on the coax cable
Input connector	N - female (to the Preampifier)
Output connector	BNC - female (to the RX)
N.F. max.	0.9 dB
Input Power supply	+ 12 V DC (Socket: Ext. Ø 5.5 mm. Int. Ø 2.1 mm. to + DC)
Dimensions mm.	60 × 35 × h30
Case	Plated Steel