

Antenna Authority, Inc.

DF Antennas Our Specialty!

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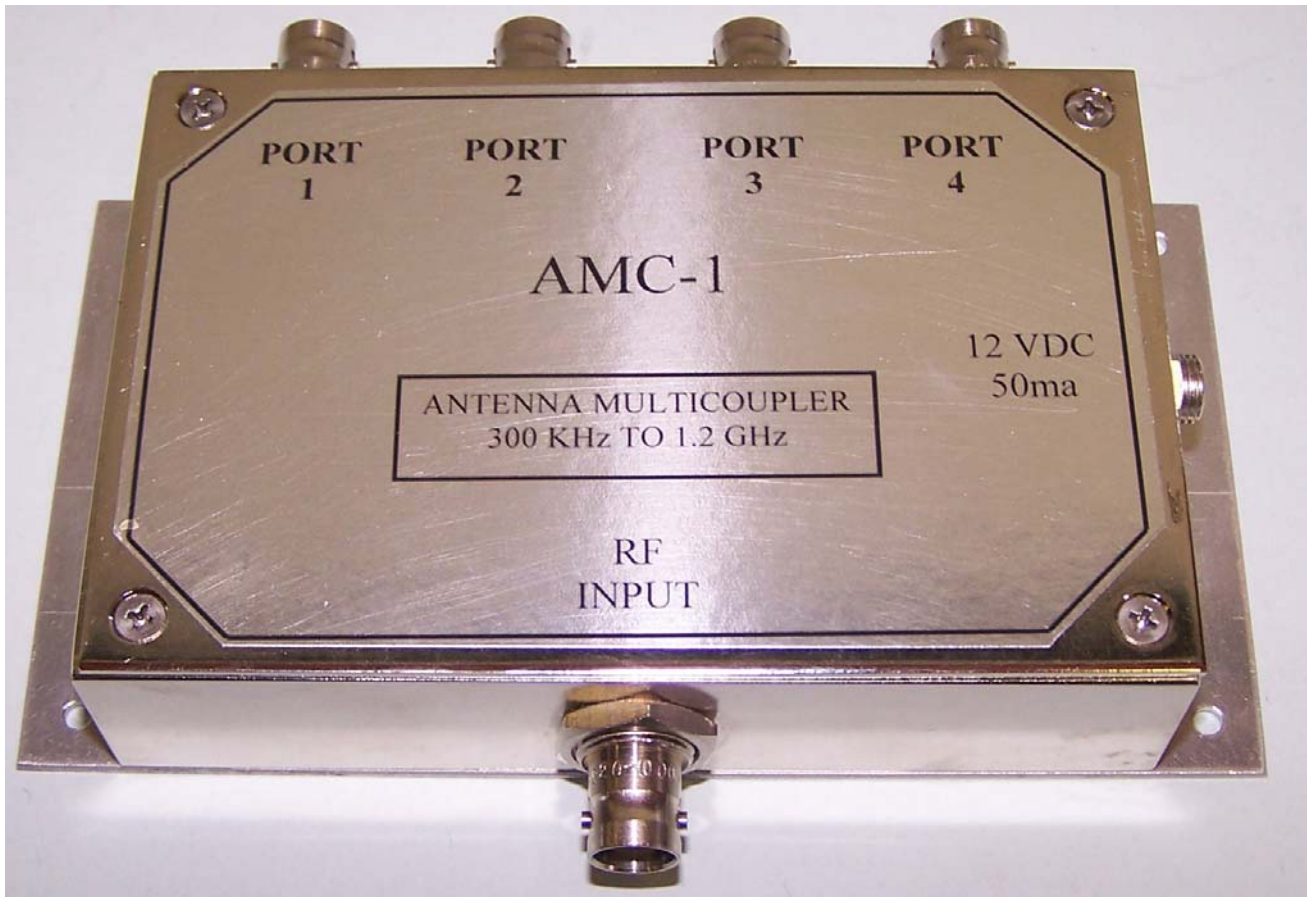
3381 West County Line Rd. Douglasville, GA 30135-1145

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PRODUCT SPECIFICATION

Product Code --- AMC-1 Antenna Multicoupler



The **AMC-1** is an antenna multi-coupler designed for use in the HF/VHF/UHF frequency range to allow multiple receivers to monitor from a common antenna. The multi-coupler provides port to port isolation to reduce the possibility of RF interference between receivers and a built-in pre amplifier to offset the losses in the hybrid splitter and coax cable so that the four outputs have a nominal gain of +10 dB and an impedance of 50 ohms. This unit will support up to four devices such as radios, spectrum analyzers and scanners and the input circuitry has built-in overpower and static protection to prevent the unit from being burned up from nearby transmitters or static buildup.

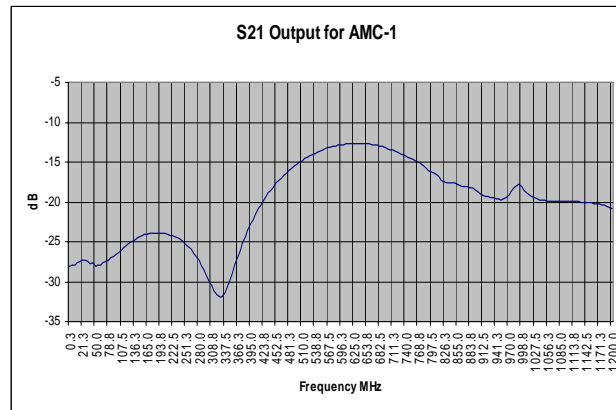
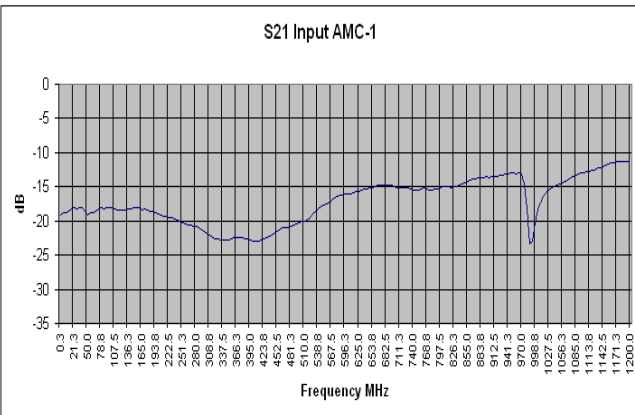
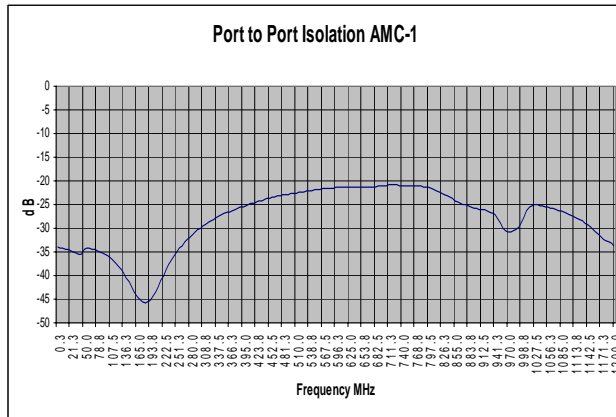
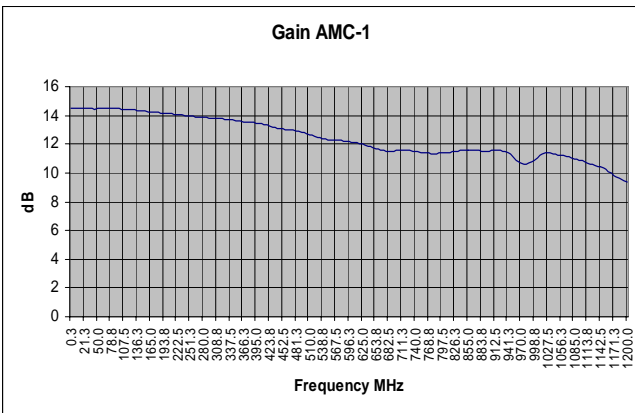
It is constructed in an aluminum enclosure with BNC fittings with a mounting flange. Other fittings (SMA, Type N) are available on special order if required.

It is intended for operation from automobile 12 V systems or a 110 VAC wall adapter.

End view - power input to the AMC-1 is a std 5.5 x 2.1 mm dc plug



Graphical Performance Plots



S21

RF Performance Specifications

Frequency Coverage: 300 kHz to 1.2 GHz
Isolation: 20 dB port to port
Gain: 8 to 13 dB
P1 dB: +5 dBm output
IP3: -17 dBm output
Return Loss input: >10 dB
Return Loss output: >10 dB
Noise Figure: 2.4 dB
RF connectors: BNC
EMI/RFI Shielding: > 60 dB

Electrical Specifications

DC power: 12 VDC, 40 mA
DC Connection: 5.5 mm X 2.1 mm

Mechanical Specifications

Dimensions: 4.5" X 3" X 1"
Environments: Operating: -40°C to +60°C Storage: -40°C to +70°C Humidity: 95%

Ordering Information

Model No. **AMC-1**
Printed in U.S.A. Copyright 3/1/10
One year warranty on parts and labor