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105 E. Jarrettsville Road, Forest Hill, MD, 21050, USA

Phone: 410.893.2430 Fax: 410.638.5193

RF Distribution Unit/ Multicoupler

Model RFDU05-01-8N

Operation and Maintenance

General Description

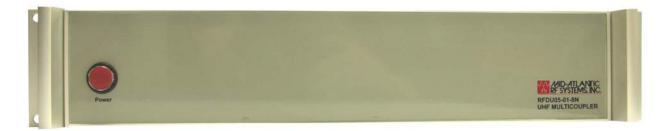


The RFDU05-01-8N RF distribution unit provides a low cost means to provide an RF signal from an antenna or other source to eight individual loads.

It is suitable for use with signals from below 50MHz to over 500MHz at levels up to -10dBm. The unit is specified to operate over the 200MHz to 350MHz frequency range and tested to assure compliance over that range.

This unit is designed to be rack mounted into an EIA 19 inch "relay" rack and has all connections made to the unit's rear panel. The front panel contains only the power switch which has an LED power indicator which is illuminated when the unit is powered.

Other than the AC Power switch, the unit has no operator controls. Internal circuits are air cooled and temperature monitored. When internal temperatures rise, an internal fan provides forced air for cooling.



Front Panel

SAFETY WARNING:

This unit operates from AC mains which are up to 240V RMS. Peak voltages can reach 340V. A potentially lethal shock hazard exists. Although power handling elements are well shielded, a shock hazard exists and a shock can kill you. This unit contains no user serviceable parts. The covers should not be removed. Doing so voids the warranty and exposes the user to an electrical shock hazard.



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Specification: - RFDU05-01-8N

Performance according to specifications is guaranteed over the stated operating temperature range unless otherwise noted.

RF Distribution Unit - Multicoupler:

Frequency Range: 200 to 350MHz

Input: One; Outputs: Eight Gain: 0dB min, 3dB max Gain Variation: ±0.5dB max Input signal: -110dbm to - 10dbm

Impedance: 50 Ohms

Isolation: 50dB min any output channel to any other output channel. 60dB typical

Connectors: N-type Jack, Input and Output

P1dB – typical: +14dBm Output IP3 – typical: +29dBm

Physical:

Rack mounted, 19" EIA 2U (3.5") High, 12" Deep exclusive of connectors.

Input AC power: 100 to 240VAC 50/60 Hz

Environmental: Intended for human habitable spaces, 0 to +40°C, 0 to 95% relative humidity,

non condensing atmosphere.

Fuse: 3.15A Slow Blow, 5 X 20 mm



Rear Panel

SAFETY WARNING:

This unit operates from AC mains which are up to 240V RMS. Peak voltages can reach 340V. A potentially lethal shock hazard exists. Although power handling elements are well shielded, a shock hazard exists and a shock can kill you. This unit contains no user serviceable parts. The covers should not be removed. Doing so voids the warranty and exposes the user to an electrical shock hazard.

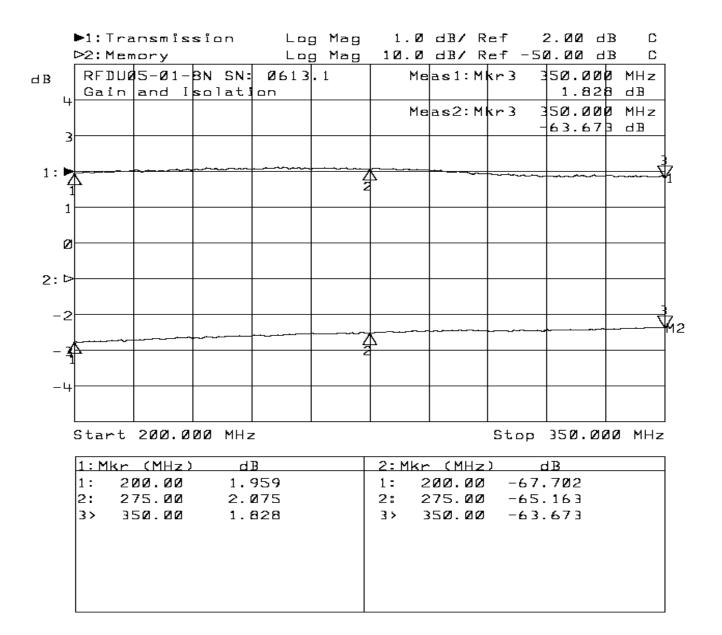




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Typical Measured Performance:



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