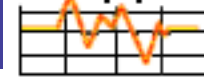


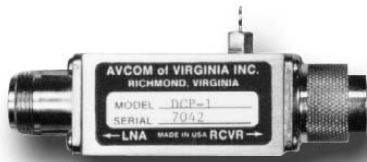
# SATELLITE/MICROWAVE ACCESSORIES

## Test Equipment Depot



99 Washington St.  
Melrose, MA 02176  
FAX 781-665-0780

1-800-517-8431 TestEquipmentDepot.com



### DC Power Block, Model DCP1

AVCOM's DCP-1 is a 3.7–4.2 GHz DC Power Block for inserting or removing voltage on C-Band coaxial cables. Applications include inserting power on coax feed lines to power LNAs or line amplifiers, blocking DC voltage when multiple receivers are used on a single LNA, and providing DC protection to sensitive test and measurement equipment.

### Ordering Information

**DCP-1 DC Power Block**



### AVCOM 2-, 4- and 8-Way Power Dividers, with and without DC Power Block. Models PD-2, PD-4, and PD-8

AVCOM Power Dividers allow one LNA to feed two, four, or eight receiver installations. PDC Series include DC power block.

### Technical Specifications

Frequency:	3.7–4.2 GHz
Isolation:	25 dB typical
VSWR:	1.20:1
Impedance:	50 Ohm

### Technical Specifications

Input Voltage:	100 VDC max
Input Current:	250 mA max
Connectors:	Type N-Female/Type N-Male

### Ordering Information

**PD-2 2-Way Power Divider**

**PD-2DC 2-Way Power Divider with Block**

**PD-4 4-Way Power Divider**

**PD-4DC 4-Way Power Divider with Block**

**PD-8 8-Way Power Divider**

**PD-8DC 8-Way Power Divider with Block**

### PFA-12 Prime Focus Adapter & PFM3 Mounting Plate for DBS Offset Feed LNBS

AVCOM's new PFA-12 prime focus adapter modifies existing offset Ku band DBS LNBS to work efficiently with prime focus antennas with F/D ratios between 0.3 and 0.4. This innovative product allows low cost DBS LNBS to be quickly modified for use with larger prime focus dishes for reception of DBS signals in Alaska, Hawaii and other remote areas. Just snap off the DBS LNB cover and insert the adapter. Optional prime focus mounting plate model PFM-3 with standard C Band three hole pattern to facilitate mounting on existing feed supports is available.

DBS satellites are optimized for a strong United States footprint. To receive outside the continental U.S., larger antennas are desirable. Large offset antennas are less common than the readily available prime focus antennas that are used for home satellite reception. (Prime focus antennas are those antennas that have the feedhorn mounted on axis with the center of the dish).

Offset fed antennas typically require an LNB feed designed with a relatively narrow beam for efficient illumination of the reflector. In contrast, prime focus antennas have a focal length to

diameter ratio (F/D ratio) of about .3 requiring a wider feedhorn beam pattern for efficient dish illumination. The PFA12 is a modification to increase the beam width of standard DBS LNBS.

The PFA-12 is comprised of a length of circular waveguide and a scalar ring attached to one end of the waveguide. The dimensions are such that it can be dropped into a standard DBS LNB (as shown in the photos) by removing the plastic cover and inserting it into the existing feed and snapping the plastic cover back on. The new feed assembly is retained by the plastic cover. Since the original feed has a larger inner diameter (to achieve narrow beam width), the PFA-12 is manufactured to fit snugly in place.

A DBS LNB modified with a PFA-12 has exhibited a performance improvement of typically 4 to 6 dB in field tests. This performance improvement allows a reduction of dish diameter typically by half (i.e. a 4' diameter dish could be used instead of an 8' with an unmodified LNB). This is extremely important when considering the cost of making an accurate 8' dish at 12 GHz versus a 4' at the same frequency.

### Ordering Information

**PFA-12 Prime Focus Adapter**  
**PFM-3 Mounting Plate for DBS Offset Feed LNBS**

### High Frequency DC Power Block Models DCP-8 and DCP-14

AVCOM's DCP-8 and DCP-14 are DC Power Blocks for inserting or removing voltage coaxial cables in the .1–8 GHz and .5–14 GHz frequency bands, respectively.

### Technical Specifications

#### Frequency Response

DCP-8:	100 MHz to 8 GHz
DCP-14:	500 MHz to 14 GHz
Connectors:	Type SMA (Std)



### AVCOM LA-3700 3.7–4.2 GHz Line Amplifier

Designed to amplify satellite signals in the 3.7 to 4.2 GHz range over long distances. The unit passes DC power for powering LNAs.

### Technical Specifications

Frequency Range:	3.7 to 4.2 GHz
Gain:	18 dB
Noise Figure:	6 dB
DC Voltage:	+15 to +24 VDC
Connector Type:	Type N Female, 50 ohm



### Amplified 2-Way C Band Power Divider Model APD-2

AVCOM's APD-2 C-Band Power Divider allows one LNA to feed two receiver installations with gain to compensate for cable and splitter losses.

### Technical Specifications

Frequency Range:	3.6–4.2 GHz
Gain:	11 dB each port (typical)
Noise Figure:	<3.5 dB
DC Voltage:	+10 to +25 VDC
Isolation:	25 dB (typical)
VSWR:	1.20:1
Impedance:	50 ohm
Connector Type:	N Female
Other gains, DC port and connector configurations available. Call for details.	

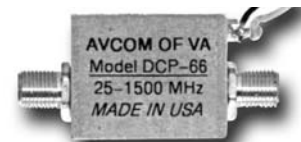
# MICROWAVE ACCESSORIES

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### 8-Way, Amplified, 950–1450 MHz Microwave Distribution Module—Model MDM-950-8

The MDM-950-8 is an 8-way, amplified power divider with an internal power supply to insert

+18 VDC on the input coax. The eight output ports are DC blocked. The rear panel has a cable stress relieving tray.

GPS version available, call for details.

#### Technical Specifications

Frequency Range:	950–1450 MHz (other frequency bands may be customer specified)
Gain:	~10 dB
DC Voltage:	+18 VDC (other voltages may be customer specified)
AC Voltage:	110 VAC/60 standard, 220/240 VAC models available
Input Connector Type:	Type F Female, 75 ohm (other connector types may be customer specified)
Output Connector Type:	Type F Female, 75 ohm (other connector types may be customer specified)

#### Ordering Information

**MDM-950-8** Microwave Distribution Module



### Uniform Response Line Amplifier – Model URLA-1500 and URLA-2100

Designed to amplify downconverted satellite signals in the 270 to 1500 MHz (URLA-1500) or 400 to 2100 MHz (URLA-2100) range over long distances. The unit passes DC power for powering LNBS.

#### Technical Specifications

Frequency Range:	URLA-1500: 270 to 1500 MHz; URLA-2100: 400 to 2100 MHz
Gain:	20 dB
DC Voltage:	+12 to +24 VDC
Connector Type:	Type F Female, 75 ohm

#### Ordering Information

**URLA-1500** 270–1500 MHz  
**URLA-2100** 400–2100 MHz



### AVCOM Made Adapters

ADP-1 is an adapter with type N-Male on one end and a type F-Female on the other. The adapter mates a type N-Female connector to a type F-Male connector.

ADP-2 is an adapter with type N-Female on one end and a type F-Female on the other. This adapter mates a type N-Male connector to a type F-Male connector.

AVCOM can make customer specified adapters. Please call with your connector types and gender.

#### Ordering Information

**ADP-1** Type "N" Male to Type "F" Female Adapter  
**ADP-2** Type "N" Female to Type "F" Female Adapter



### Amplified L-Band Power Dividers Models LAPD-2 and LAPD-6

L-Band Power Dividers allow one LNB to feed two or six receiver installations with gain to compensate for cable and splitter losses. All ports pass DC power and all units have a rectifier diode circuit to protect DC return back to the receiver side.

#### Technical Specifications

Frequency:	10–2150 MHz	
	<b>2-Way</b>	<b>6-Way</b>
Isolation:	25–15 dB	5–19 dB
Gain:	+12 dB	+8 dB
Impedance:	75 ohm	75 ohm

#### Ordering Information

**LAPD-2** 2-Way Model  
**LAPD-6** 6-Way Model

### DC Power Block, Model DCP-66

AVCOM's DCP-66 is a 25 to 1500 MHz DC Power Block for inserting or removing voltage on IF coax feed lines. Typical applications include, inserting power on RG-59 coax to power a block converter, providing a test point to monitor a tuning voltage carried on a downconverter coax, and using an existing coax cable to carry power for some special purpose such as a relay switching or polarization control.

#### Technical Specifications

Insertion Loss:	1 dB
Flatness:	±5 dB
Frequency Response:	25 MHz to 1.5 GHz
Connectors:	Type F

#### Ordering Information

**DCP-66** DC Power Block



### WCA11 and WCA-4A Waveguide to Coax Adapters

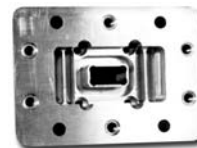
The AVCOM Waveguide to Coax Adapters transform signals in waveguide transmission line to coaxial line and vice versa. Adapters are available in the 11.25–12.75 GHz as well as 3.7 to 4.2 GHz range in either direction, waveguide to coax or coax to waveguide.



These units are one piece aluminum casting and come with all necessary hardware for attachment to an LNB.

#### Ordering Information

**WCA-11** Waveguide to Coax Adapter, 11.25–12.75 GHz  
**WCA-4A** Waveguide to Coax Adapter, 3.7–4.2 GHz



### CKA-12C Band to Ku Band Microwave Flange Adapter

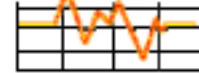
The CKA-12 Microwave Flange Adapter for C to Ku band waveguide allows the use of larger C band waveguide components such as feed horns, transitions, etc...with Ku band LNBS and LNCs. A unique feature of the CKA-12 is the combination of tapped and clearance holes which greatly simplify attachment of the CKA-12 to 12 GHz LNCs, feed horns or accessories, a 1/4–20 tapped hole is provided so the assembly can be mounted on a standard tripod.

#### Ordering Information

**CKA-12C** Flange Adapter

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## PRC-1 Polarotor Control Box – Battery Powered, Microprocessor Based Controller

AVCOM's new PRC-1 Polarotor Control Box is a self contained, battery powered, microprocessor based controller that can control servo actuated feedhorns. Vertical and Horizontal settings are quickly stored and recalled. Ideal for TVRO installers and can be effectively used in conjunction with AVCOM's PSA-37D, or PSA-35A.



### Ordering Information

**PRC-1 Microprocessor Based Controller**

## 50 & 75 Ohm Return Loss Bridges RLB-1000-50, RLB-1300-50 & RLB-1000-75

AVCOM introduces three new Return Loss Bridges, models RLB-1000-50, RLB-1300-50 and RLB-1000-75. The RLB-1000-50 and RLB-1300-50 are 50 ohm bridges with a broad frequency coverage of 5 to 1000 MHz and 5 to 1300 MHz respectively and excellent directivity of >45 dB. The RLB-1000-75 has an impedance of 75 ohm with a directivity of >45 dB in the 5 to 600 MHz band and slightly less in the 600 to 1000 MHz band. All return loss bridges from AVCOM are rugged and constructed in machined aluminum housings, with an SMA connector. Matched test cables are available and are provided at no charge when either bridge is purchased with an AVCOM NSA-1000A Network and Spectrum Analyzer. When AVCOM's return loss bridges are used with AVCOM's NSA-1000A Network Analyzer, service monitor or spectrum analyzer with a tracking generator, return loss or VSWR measurements of antennas, amplifiers or filters can be easily and quickly accomplished. Engineers and technicians in the broadcast (TV and radio), CATV, 2 way, cellular and paging industries will find the RLB-1000-50, RLB-1300-50 and RLB-1000-75 return loss bridges to be indispensable tools. Size: 5" x 2.25" x 1". Weight: 1 lb.



### Ordering Information

**RLB-1000-50 Return Loss Bridge, 50 Ohm**  
**RLB-1000-75 Return Loss Bridge, 75 Ohm**  
**RLB-1300-50 Return Loss Bridge, 50 Ohm**

## GPS Extension™ – GPS Antenna Extender – Test and train on GPS systems comfortably and quickly – INDOORS!!!

Operate your GPS receiver in the vehicle indoors with AVCOM's new GPS Antenna Extender, Model GAE-1575. Save time and money with this innovative device. Eliminates the need to move GPS systems outdoors for preliminary testing and/or training. You'll appreciate it in hot or cold weather.



The GPS Extension™ consists of the GAP-1575 GPS Antenna and Preamplifier, the DAS-1575 Distribution Amplifier and Signal Divider, and the GAC-1575 GPS Antenna Coupler. The GAP-1575 is an antenna and low noise amplifier assembly mounted outdoors in a clear area where it receives and passes GPS signals to the DAS-1575 via inexpensive coax. The DAS-1575 mounts inside where it powers the GAP-1575, amplifies, and distributes GPS signals to the Antenna Coupler. The GAC-1575 Coupler is placed over the GPS vehicular antenna and the GPS system will indicate the position of the GAP-1575 Antenna allowing INDOOR maintenance and/or training.

### Ordering Information

**GAE-1575 Antenna Extender**

## MLA-1450 Series Adapters

MLA-1450 Series adapters are for use when changing from 50 ohm LNAs to more economical 75 ohm LNAs. The input port has a 75 ohm F female connector and the output port comes with a choice of either a type N male or N female connector. The conversion block contains a precision minimum loss pad for excellent VSWR match on the input and output from 950 to 2050 MHz. Other connectors available, inquire.



### Ordering Information

**MLA-1450 Adapter**

## LPF-1200 Low Pass Filter

AVCOM's LPF-1200 is a Low Pass Filter with a frequency coverage of 0–1200 MHz and minimum insertion loss. It can be used with signal generators, spectrum analyzers and frequency extenders to enhance their performance.

### Ordering Information

**LPF-1200 Low Pass Filter**

## AVSTAND

The Avstand is a strong, stable and attractive equipment stand which gives the operator of a NSA, PSA, PTR, MSG, computer monitor, oscilloscope or other test gear more bench top area. The AVSTAND elevates the test equipment 8.25" creating a spacious test area with the results comfortably displayed at eye level.

### Ordering Information

**AVSTAND Equipment Stand**

## QRM-35

AVCOM's Quick Release Rackmount Kit (QRM-35) allows the PSA-65A, PSA-37D, PSA-35A, MSG-1000B and PTR-25D to be installed in a standard 19" equipment rack. The front plate has four spring loaded thumbscrews for easy removal so that the PSA or PTR can be also used in the field and returned to the rack.

### Ordering Information

**QRM-35 Quick Release Rackmount Kit for Use with PSAs and PTR**

## Overlays

The AVCOM Overlays are handy die cut plastic sheets designed to fit over the CRT display of the PSA-37D, PSA-35A, PSA-65, or PSA-65C. Spectrum Analyzers. These can be used to document installations for future reference by tracing the display onto the overlay.

### Ordering Information

**100VR Overlay Die Cut (10 packages of 3)**