

*Pico Macom's  
Distribution Active Components  
will enable your system to deliver  
the proper signal every time!*

- ◆ Amplifiers
- ◆ Slope Equalizers
- ◆ Power Inserters
- ◆ Block Converters
- ◆ Multiswitches
- ◆ Audio/Video Modulators

# Section B Index

## Distribution Active Components

|                   |     |                          |      |
|-------------------|-----|--------------------------|------|
| PIDA-1000.....    | B-2 | XSV.....                 | B-8  |
| PIDA-550.....     | B-2 | LA-2150 Series.....      | B-8  |
| CA-30/1000.....   | B-2 | LA-10.....               | B-8  |
| CA-50/550.....    | B-3 | PS Series.....           | B-9  |
| CA-30/550.....    | B-3 | Custom Power Supply..... | B-9  |
| MCM-55.....       | B-3 | SPI-14/18-2150.....      | B-9  |
| CDA-4 Series..... | B-4 | TSMS-5/8.....            | B-10 |
| CDA-2 Series..... | B-4 | TSMS-4/8.....            | B-10 |
| CDA-1 Series..... | B-4 | TSMS-3/8.....            | B-10 |
| TA-52.....        | B-5 | TSMS2150-5/4.....        | B-11 |
| TA-36.....        | B-5 | TSMS2150-4A.....         | B-11 |
| TA-25.....        | B-5 | TSMS2150-4.....          | B-11 |
| TA-15.....        | B-6 | TSMS-3/4.....            | B-12 |
| TA-12.....        | B-6 | TSMS-4C.....             | B-12 |
| MPA-HD.....       | B-6 | VSS-52R.....             | B-12 |
| MCM-30.....       | B-7 | VSM-3/4S.....            | B-13 |
| MCM-201T.....     | B-7 | USM-20D3.....            | B-13 |
| MCM-101.....      | B-7 | USM-8D.....              | B-13 |



# PIDA-1000

**Broadband Bi-Directional Push-Pull Distribution Amplifier**



Available in the following Attenuator (AT) and Equalizer (EQ) Values (dB):



**PIDA-AT9**

- |                  |                  |
|------------------|------------------|
| <b>PIDA-AT6</b>  | <b>PIDA-EQ6</b>  |
| <b>PIDA-AT9</b>  | <b>PIDA-EQ9</b>  |
| <b>PIDA-AT12</b> | <b>PIDA-EQ12</b> |
| <b>PIDA-AT18</b> | <b>PIDA-EQ18</b> |

- ◆ 54~1000 MHz (CATV 2~158) and 5~36 MHz reverse bandwidth (CATV T7~T11)
- ◆ 30 dB forward path gain and 20 dB or passive reverse path gain (switchable) for maximum flexibility
- ◆ ±0.75 dB flatness across band provides low distortion and excellent frequency response
- ◆ Employs dual state-of-the art push-pull hybrid technology for very low distortion, high input and output capability
- ◆ Optional plug-in equalizers and attenuators enable unity gain and slope system balancing for minimum distortion
- ◆ -30 dB input and output test points enable simplified setup and performance monitoring without service interruption
- ◆ Built-in lightning and line-voltage surge protection protects the unit from damage
- ◆ External UL approved power supply

|                              |            |                        |                           |
|------------------------------|------------|------------------------|---------------------------|
| Bandwidth                    | 5~1000 MHz | Input Test Point Loss  | 30 dB                     |
| Gain (FWD)                   |            | Output Test Point Loss | 30 dB                     |
| 54~1000 MHz                  | 30 dB      | Power Input            | 26 VDC                    |
| Gain (REV)                   |            | Power Required         | 26 Watt                   |
| 5~36 MHz                     | 20 dB      | Dimensions             | 11"(L) x 3.25"(D) x 7"(W) |
| Max. Output (158 ch.)        | 38 dBmV    | Weight                 | 6.2 lbs                   |
| Flatness                     | 0.5 dB     |                        |                           |
| Noise Figure (FWD)           | 5 dB       |                        |                           |
| Noise Figure (REV)           | 4 dB       |                        |                           |
| Composite Second Order (FWD) | 60 dB      |                        |                           |
| Composite Triple Beat (FWD)  | 58 dB      |                        |                           |

# PIDA-550

**Broadband Bi-Directional Push-Pull Distribution Amplifier**



Available in the following Attenuator (AT) and Equalizer (EQ) Values (dB):



**PIDA-AT9**

- |                  |                  |
|------------------|------------------|
| <b>PIDA-AT6</b>  | <b>PIDA-EQ6</b>  |
| <b>PIDA-AT9</b>  | <b>PIDA-EQ9</b>  |
| <b>PIDA-AT12</b> | <b>PIDA-EQ12</b> |
| <b>PIDA-AT18</b> | <b>PIDA-EQ18</b> |

- ◆ 54~550 MHz (CATV 2~PPP) and 5~36 MHz reverse bandwidth (CATV T7~T11)
- ◆ 30 dB forward path gain and 20 dB or passive reverse path gain (switchable) for maximum flexibility
- ◆ ±0.75 dB flatness across band provides low distortion and excellent frequency response
- ◆ Employs dual state-of-the art push-pull hybrid technology for very low distortion, high input and output capability
- ◆ Optional plug-in equalizers and attenuators enable unity gain and slope system balancing for minimum distortion
- ◆ -30 dB input and output test points enable simplified setup and performance monitoring without service interruption
- ◆ Built-in lightning and line-voltage surge protection protects the unit from damage
- ◆ External UL approved power supply

|                              |           |                        |                           |
|------------------------------|-----------|------------------------|---------------------------|
| Bandwidth                    | 5~550 MHz | Input Test Point Loss  | 30 dB                     |
| Gain (FWD)                   |           | Output Test Point Loss | 30 dB                     |
| 54~550 MHz                   | 30 dB     | Power Input            | 26 VDC                    |
| Gain (REV)                   | 5~36 MHz  | Power Required         | 26 Watt                   |
| Max. Output (82 ch.)         | 45 dBmV   | Dimensions             | 11"(L) x 3.25"(D) x 7"(W) |
| Flatness                     | 0.5 dB    | Weight                 | 6.2 lbs                   |
| Noise Figure (FWD)           | 5 dB      |                        |                           |
| Noise Figure (REV)           | 4 dB      |                        |                           |
| Composite Second Order (FWD) | 60 dB     |                        |                           |
| Composite Triple Beat (FWD)  | 58 dB     |                        |                           |

# CA-30/1000

**1 GHz Broadband Push-Pull Distribution Amplifier**



- ◆ 54~1000 MHz frequency range (CATV 2~158)
- ◆ 30 dB gain for optimal carrier to noise ratio and superior picture quality
- ◆ ±0.5 dB flatness across band provides low distortion and excellent frequency response
- ◆ Employs state-of-the art hybrid push-pull technology for distortion-free audio-video quality
- ◆ Adjustable slope and gain controls for easy system balancing
- ◆ Easy-access controls and low-loss (-20 dB) test point enable simplified setup and performance monitoring
- ◆ Shielded enclosure provides over 95 dB RFI shielding performance reducing leakage and ingress
- ◆ Built-in lightning and line voltage surge protection protects the unit from damage

|                               |             |                        |                            |
|-------------------------------|-------------|------------------------|----------------------------|
| Bandwidth                     | 54~1000 MHz | Input Test Point Loss  | 20 dB                      |
| Gain (FWD)                    |             | Output Test Point Loss | 20 dB                      |
| 54~1000 MHz                   | 30 dB       | Power Input            | 115 VAC                    |
| Maximum Output (158 channels) | 38 dBmV     | Power Frequency        | 60 Hz                      |
| Flatness                      | 0.5 dB      | Power Required         | 4 Watt                     |
| Noise Figure (FWD)            | 5 dB        | Dimensions             | 8"(L) x 2.75"(D) x 4.5"(H) |
| Composite Second Order (FWD)  | 60 dB       | Weight                 | 2.5 lbs.                   |
| Composite Triple Beat (FWD)   | 58 dB       |                        |                            |



# CA-50/550

550 MHz High-Gain Distribution Amplifier



- ◆ 54-550 MHz frequency range (CATV 2~PPP)
- ◆ 50 dB gain designed for low input applications to provide optimum carrier to noise performance
- ◆  $\pm 0.75$  dB flatness per 100 MHz provides low distortion and excellent frequency response
- ◆ Employs state-of-the-art hybrid push-pull technology for distortion-free audio-video quality
- ◆ Adjustable slope and gain controls for easy system balancing
- ◆ Easy-access controls and low-loss (-20 dB) test point enable simplified setup and performance monitoring
- ◆ Built-in lightning and line voltage surge protection protects the unit from damage

|                              |            |                        |                            |
|------------------------------|------------|------------------------|----------------------------|
| Bandwidth                    | 54~550 MHz | Input Test Point Loss  | 20 dB                      |
| Gain (FWD)                   |            | Output Test Point Loss | 20 dB                      |
| 54~550 MHz                   | 50 dB      | Power Input            | 115 VAC                    |
| Maximum Output (82 channels) | 53 dBmV    | Power Frequency        | 60 Hz                      |
| Flatness                     | 0.5 dB     | Power Required         | 4 Watt                     |
| Noise Figure (FWD)           | 6 dB       | Dimensions             | 8"(L) x 2.75"(D) x 4.5"(H) |
| Composite Second Order (FWD) | 60 dB      | Weight                 | 2.5 lbs                    |
| Composite Triple Beat (FWD)  | 58 dB      |                        |                            |

# CA-30/550

550 MHz Push-Pull Distribution Amplifier



- ◆ 54-550 MHz frequency range (CATV 2~PPP)
- ◆ 30 dB gain for optimal carrier to noise ratio and superior picture quality
- ◆  $\pm 0.5$  dB flatness across band provides low distortion and excellent frequency response
- ◆ Employs state-of-the-art hybrid push-pull technology for distortion-free audio-video quality
- ◆ Adjustable slope and gain controls for easy system balancing
- ◆ Easy-access controls and low-loss (-20 dB) test point enable simplified setup and performance monitoring
- ◆ Built-in lightning and line voltage surge protection protects the unit from damage

|                              |            |                        |                            |
|------------------------------|------------|------------------------|----------------------------|
| Bandwidth                    | 54~550 MHz | Input Test Point Loss  | 20 dB                      |
| Gain (FWD)                   |            | Output Test Point Loss | 20 dB                      |
| 54~550 MHz                   | 30 dB      | Power Input            | 115 VAC                    |
| Maximum Output (82 channels) | 53 dBmV    | Power Frequency        | 60 Hz                      |
| Flatness                     | 0.5 dB     | Power Required         | 4 Watt                     |
| Noise Figure (FWD)           | 4.5 dB     | Dimensions             | 8"(L) x 2.75"(D) x 4.5"(H) |
| Composite Second Order (FWD) | 70 dB      | Weight                 | 2.3 lbs                    |
| Composite Triple Beat (FWD)  | 61 dB      |                        |                            |

# MCM-55

300 MHz VHF High-Gain Push-Pull Amplifier



- ◆ 54-300 MHz frequency range (CATV 2~W)
- ◆ High 55 dB gain for optimal carrier to noise ratio and superior picture quality
- ◆  $\pm 0.5$  dB flatness across band provides low distortion and excellent frequency response
- ◆ Employs state-of-the-art hybrid push-pull technology for distortion-free audio-video quality
- ◆ Adjustable slope and gain controls for easy system balancing
- ◆ Easy-access controls and low-loss (-30 dB) test point enable simplified setup and performance monitoring
- ◆ Built-in lightning and line voltage surge protection protects the unit from damage
- ◆ External UL approved power adapter supplied for ease of installation and to reduce heat build-up within the unit

|                              |            |                        |                         |
|------------------------------|------------|------------------------|-------------------------|
| Bandwidth                    | 54~300 MHz | Input Test Point Loss  | 30 dB                   |
| Gain (FWD)                   |            | Output Test Point Loss | 30 dB                   |
| 54~300 MHz                   | 55 dB      | Power Input            | 28 VAC                  |
| Maximum Output (36 channels) | 51 dBmV    | Power Frequency        | 60 Hz                   |
| Flatness                     | 0.5 dB     | Power Required         | 17 Watt                 |
| Noise Figure (FWD)           | 5 dB       | Dimensions             | 8"(L) x 4.5"(D) x 2"(H) |
| Composite Second Order (FWD) | 70 dB      | Weight                 | 2.8 lbs                 |
| Composite Triple Beat (FWD)  | 61 dB      |                        |                         |



## CDA-4 Series

1 GHz CATV Drop Bi-Directional Amplifiers



**CDA-4A** Fwd/Rev  
**CDA-4P** Fwd w/passive Rev

- ◆ Forward bandwidth 54 to 1000 MHz allows use in large broadband systems. Reverse bandwidth 5 to 42 MHz allows interactive revenue generating services
- ◆ 8 dB forward gain provides better carrier to noise separation for optimum system performance.
- ◆ 4 outputs simplify installation and reduce equipment clutter caused by external signal splitting
- ◆ Ultra low 3 dB noise figure provides clean distribution, reducing digital artifacts in digital signals, and provides clearer analog pictures
- ◆ 6 kV surge protected on all ports to protect consumer equipment from transient voltages and line surges
- ◆ Output or independent power "F" port capability provides powerful flexibility option for local or remote powering
- ◆ External UL approved power supply for international or North American use

|                               |                           |                              |                             |
|-------------------------------|---------------------------|------------------------------|-----------------------------|
| Bandwidth                     | 5~1000 MHz                | Composite Second Order (FWD) | 62 dB                       |
| Gain (FWD) 54~1000 MHz        | 8 dB                      | Composite Triple Beat (FWD)  | 74 dB                       |
| Gain (REV) 5~42 MHz           | 4 dB (4A)<br>-7.5 dB (4P) | Power Input                  | 12 VDC                      |
| Maximum Output (158 channels) | 11 dBmV                   | Power Required               | 2.5 Watt                    |
| Flatness                      | 0.75 dB                   | Dimensions                   | 3.4"(L) x 2.4"(D) x 0.9"(H) |
| Noise Figure (FWD)            | 3 dB                      | Weight                       | 0.8 lbs                     |

## CDA-2 Series

1 GHz CATV Drop Bi-Directional Amplifiers



**CDA-2A** Fwd/Rev  
**CDA-2P** Fwd w/passive Rev

- ◆ Forward bandwidth 54 to 1000 MHz allows use in large broadband systems. Reverse bandwidth 5 to 42 MHz allows interactive revenue generating services
- ◆ 11 dB forward gain provides better carrier to noise separation for optimum system performance.
- ◆ 2 outputs simplify installation and reduce equipment clutter caused by external signal splitting
- ◆ Ultra low 3 dB noise figure provides clean distribution, reducing digital artifacts in digital signals, and provides clearer analog pictures
- ◆ 6 kV surge protected on all ports to protect consumer equipment from transient voltages and line surges
- ◆ Output or independent power "F" port capability provides powerful flexibility option for local or remote powering
- ◆ External UL approved power supply for international or North American use

|                               |                           |                              |                             |
|-------------------------------|---------------------------|------------------------------|-----------------------------|
| Bandwidth                     | 5~1000 MHz                | Composite Second Order (FWD) | 62 dB                       |
| Gain (FWD) 54~1000 MHz        | 11 dB                     | Composite Triple Beat (FWD)  | 74 dB                       |
| Gain (REV) 5~42 MHz           | 7 dB (2A)<br>-4.5 dB (2P) | Power Input                  | 12 VDC                      |
| Maximum Output (158 channels) | 15 dBmV                   | Power Required               | 2.5 Watt                    |
| Flatness                      | 0.75 dB                   | Dimensions                   | 3.4"(L) x 2.4"(D) x 0.9"(H) |
| Noise Figure (FWD)            | 3 dB                      | Weight                       | 0.8 lbs                     |

## CDA-1 Series

1 GHz CATV Drop Bi-Directional Amplifiers



**CDA-1A** Fwd/Rev  
**CDA-1P** Fwd w/passive Rev

- ◆ Forward bandwidth 54 to 1000 MHz allows use in large broadband systems. Reverse bandwidth 5 to 42 MHz allows interactive revenue generating services
- ◆ 15 dB forward gain provides better carrier to noise separation for optimum system performance.
- ◆ 1 output simplifies installation and reduce equipment clutter caused by external signal splitting
- ◆ Ultra low 3 dB noise figure provides clean distribution, reducing digital artifacts in digital signals, and provides clearer analog pictures
- ◆ 6 kV surge protected on all ports to protect consumer equipment from transient voltages and line surges
- ◆ Output or independent power "F" port capability provides powerful flexibility option for local or remote powering
- ◆ External UL approved power supply for international or North American use

|                               |                          |                              |                             |
|-------------------------------|--------------------------|------------------------------|-----------------------------|
| Bandwidth                     | 5~1000 MHz               | Composite Second Order (FWD) | 62 dB                       |
| Gain (FWD) 54~1000 MHz        | 15 dB                    | Composite Triple Beat (FWD)  | 74 dB                       |
| Gain (REV) 5~42 MHz           | 10 dB (1A)<br>-1 dB (1P) | Power Input                  | 12 VDC                      |
| Maximum Output (158 channels) | 19 dBmV                  | Power Required               | 2.5 Watt                    |
| Flatness                      | 0.75 dB                  | Dimensions                   | 3.4"(L) x 2.4"(D) x 0.9"(H) |
| Noise Figure (FWD)            | 3 dB                     | Weight                       | 0.8 lbs                     |

# TA-52

## 806 MHz UHF/VHF/FM High-Gain Launch Amplifier



- ◆ 54-806 MHz frequency range (TV 2-69)
- ◆ 52 dB high gain typical, provides excellent carrier to noise performance for superior picture quality
- ◆ 3 independently adjustable band, gain, and slope controls (VHF-low, VHF-high, UHF) for optimal carrier to noise ratio and easy system balancing
- ◆ Dual switchable input attenuators eliminate overloading and reduce harmonic distortion preserving picture quality
- ◆ Convenient front access switchable FM trap filter eliminates high level local FM radio stations reducing harmonic distortion
- ◆ -20 dB output test point enables simplified setup and performance monitoring without service interruption
- ◆ Combined or separate VHF/UHF inputs provide application flexibility
- ◆ Internal power supply employs voltage surge protection circuitry for increased life

|                             |                          |                        |                        |
|-----------------------------|--------------------------|------------------------|------------------------|
| Bandwidth                   | 54-806 MHz               | Output Test Point Loss | 20 dB                  |
| Gain (FWD)                  |                          | Power Input            | 117 VAC                |
| 54-806 MHz                  | 48 dB                    | Power Frequency        | 60 Hz                  |
| Maximum Output (3 channels) | 60 dBmV                  | Power Required         | 40 Watt                |
| Noise Figure (FWD)          |                          | Dimensions             | 19"(L) x 3"(D) x 5"(H) |
|                             | 5 dB (VHF)<br>7 dB (UHF) | Weight                 | 6.6 lbs                |

# TA-36

## 31-36 dB Adjustable Sloped UHF/VHF/FM Distribution Amplifier



- ◆ Cost-Effective Wide-Frequency Bandwidth Amplifier
- ◆ 68 Off-Air Channel Range (54-806 MHz) suitable for small to large MATV-SMATV systems
- ◆ 5 dB sloped-output across band provides low harmonic distortion
- ◆ 15 dB Independently adjustable band-gain controls for optimal carrier to noise ratio and balancing
- ◆ Dual -20 dB FM trap switches (88-96 MHz, 95-108 MHz) effectively filter high level local FM radio stations reducing harmonic distortion
- ◆ Heavy Gauge Rugged Shielded Wall-Mount Case
- ◆ Convenient and compact design allows quick and easy installation
- ◆ Front Panel LED Power Indicator and Fuse Holder

|                              |                          |                        |         |
|------------------------------|--------------------------|------------------------|---------|
| Bandwidth                    | 54-806 MHz               | Output Test Point Loss | 20 dB   |
| Gain 54-806 MHz              | 31-36 dB (sloped)        | Power Input            | 117 VAC |
| Power Frequency              |                          | Power Frequency        | 60 Hz   |
| Maximum Output (15 channels) | 41 dBmV                  | Power Required         | 7 Watt  |
| Flatness                     | 5 dB                     | Weight                 | 2.2 lbs |
| Noise Figure                 |                          |                        |         |
|                              | 5 dB (VHF)<br>7 dB (UHF) |                        |         |

# TA-25

## 18-25 dB Sloped UHF/VHF/FM Distribution Amplifier



- ◆ Cost-effective Wide-Frequency Bandwidth Amplifier
- ◆ 68 Off-Air Channel Range (54-806 MHz) suitable for small to large MATV-SMATV systems
- ◆ 7 dB sloped-output across band provides low harmonic distortion
- ◆ -20 dB FM trap switch (88-108 MHz) filters high level local FM radio stations reducing harmonic distortion
- ◆ Heavy Gauge Rugged Shielded Wall-Mount Case
- ◆ Convenient and compact design allows quick and easy installation
- ◆ Front Panel LED Power Indicator

|                              |                          |                 |          |
|------------------------------|--------------------------|-----------------|----------|
| Bandwidth                    | 54-806 MHz               | Power Input     | 117 VAC  |
| Gain 54-806 MHz              | 18-25 dB (sloped)        | Power Frequency | 60 Hz    |
| Power Frequency              |                          | Power Required  | 4.4 Watt |
| Maximum Output (15 channels) | 32 dBmV                  | Weight          | 1.2 lbs  |
| Flatness                     | 7 dB                     |                 |          |
| Noise Figure                 |                          |                 |          |
|                              | 5 dB (VHF)<br>7 dB (UHF) |                 |          |



## TA-15

11-15 dB Sloped UHF/VHF/FM  
Distribution Amplifier



- ◆ Cost-Effective Wide-Frequency Bandwidth Amplifier
- ◆ 68 Off-Air Channel Range (54~806 MHz) suitable for small to large MATV-SMATV systems
- ◆ 4 dB sloped-output across band provides low harmonic distortion
- ◆ Heavy Gauge Rugged Shielded Case
- ◆ Convenient and compact design allows quick and easy installation

|                              |                          |                 |         |
|------------------------------|--------------------------|-----------------|---------|
| Bandwidth                    | 54~806 MHz               | Power Input     | 117 VAC |
| Gain 54~806 MHz              | 11~15 dB (sloped)        | Power Frequency | 60 Hz   |
|                              |                          | Power Required  | 2 Watt  |
| Maximum Output (15 channels) | 34 dBmV                  | Weight          | 1 lb    |
| Flatness                     | 4 dB                     |                 |         |
| Noise Figure                 | 6 dB (VHF)<br>7 dB (UHF) |                 |         |

## TA-12

12 dB 2-Output UHF/VHF/FM  
Distribution Amplifier



- ◆ Cost-Effective Wide Frequency Bandwidth Amplifier
- ◆ 68 Off-Air Channel Range (54~806 MHz) suitable for small to large MATV-SMATV systems
- ◆ Very Low-Noise and Distortion
- ◆ 2 Full-Level Outputs reduces need for additional splitters for simple distribution design
- ◆ Heavy Gauge Rugged Shielded Wall-Mount Case
- ◆ Convenient and compact design allows quick and easy installation
- ◆ Front Panel LED Power Indicator

|                              |                          |                 |         |
|------------------------------|--------------------------|-----------------|---------|
| Bandwidth                    | 54~806 MHz               | Power Input     | 117 VAC |
| Gain 54~806 MHz              | 12 dB                    | Power Frequency | 60 Hz   |
| Maximum Output (15 channels) | 41 dBmV                  | Power Required  | 2 Watt  |
| Flatness                     | 1 dB                     | Weight          | 1.2 lbs |
| Noise Figure                 | 6 dB (VHF)<br>7 dB (UHF) |                 |         |

## MPA-HD

Mast-Mounted HDTV Pre-Amplifier



- ◆ Digital Signal Optimized Mast-Mounted Pre-Amplifier
- ◆ 68 Off-Air Channel Range (54~806 MHz) suitable for small to large MATV-SMATV systems
- ◆ 2 dB sloped-output across band provides low harmonic distortion
- ◆ Incorporated 75-Ohm F-type input and output interface, providing optimum connection
- ◆ 6 kV Lighting Surge Protected
- ◆ Weather-Protected Connections
- ◆ Maximum Input 30 dBmV/VHF, 25 dBmV/UHF
- ◆ Mounting Hardware Included
- ◆ External 117VAC 60Hz 5W Power Source
- ◆ UL Approved

|                              |                      |                 |                          |
|------------------------------|----------------------|-----------------|--------------------------|
| Bandwidth                    | 54~806 MHz           | Noise Figure    | 3 dB (VHF)<br>5 dB (UHF) |
| Gain 54~806 MHz              | 15~17 dB (sloped)    | Power Input     | 117 VAC                  |
| Maximum Output (15 channels) | 32 dBmV              | Power Frequency | 60 Hz                    |
| Flatness                     | 0.5 dB (sloped 2 dB) | Power Required  | 5 Watt                   |
|                              |                      | Weight          | 2.2 lbs                  |

# MCM-30

30 dB Adjustable VHF-Band Distribution Amplifier



- ◆ Cost-Effective VHF Amplifier
- ◆ 13 Off-Air Channel Range (54~216 MHz) suitable for small to large MATV-SMATV systems
- ◆ Very Low-Noise and Distortion
- ◆ 15 dB range independently adjustable VHF High-Low Band-gain controls for optimal carrier to noise ratio and balancing
- ◆ Dual -20 dB FM trap switches (88~96 MHz, 95~108 MHz) effectively filter high level local FM radio stations reducing harmonic distortion
- ◆ Heavy Gauge Rugged Shielded Wall-Mount Case
- ◆ Convenient and compact design allows quick and easy installation
- ◆ Front Panel LED
- ◆ Power Indicator and Fuse Holder

|                              |                   |                 |         |
|------------------------------|-------------------|-----------------|---------|
| Bandwidth                    | 54~216 MHz        | Power Input     | 117 VAC |
| Gain 54~216 MHz              | 30~35 dB (sloped) | Power Frequency | 60 Hz   |
| Maximum Output (12 channels) | 43 dBmV           | Power Required  | 5 Watt  |
| Flatness                     | 0.5 dB            | Weight          | 2.1 lbs |
| Noise Figure                 | 5 dB              |                 |         |

# MCM-201T

20 dB Adjustable-Slope Basic VHF-Band Pre-Amplifier



- ◆ Cost-effective basic VHF pre-amplifier designed for indoor amplification of VHF antenna signals prior to signal separation and balancing
- ◆ 66 CATV Channel Range (54~450 MHz) suitable for home signal distribution
- ◆ 10 dB Adjustable Tilt-Level Control
- ◆ Heavy Gauge Rugged Shielded Wall-Mount Case
- ◆ Convenient and compact design allows quick and easy installation
- ◆ Maximum Input 20 dBmV (7 channels), 11 dBmV (36 channels)

|                              |            |                 |          |
|------------------------------|------------|-----------------|----------|
| Bandwidth                    | 54~450 MHz | Power Input     | 117 VAC  |
| Gain 54~300 MHz              | 20 dB      | Power Frequency | 60 Hz    |
| Maximum Output (12 channels) | 31 dBmV    | Power Required  | 2.5 Watt |
| Flatness                     | 1 dB       | Weight          | 2.1 lbs  |
| Noise Figure                 | 4 dB       |                 |          |

# MCM-101

10 dB Basic VHF-Band Amplifier



- ◆ Cost-Effective Basic VHF Amplifier
- ◆ 66 CATV Channel Range (54~450 MHz) suitable for home signal distribution
- ◆ Heavy Gauge Rugged Shielded Wall-Mount Case
- ◆ Convenient and compact design allows quick and easy installation
- ◆ Maximum Input 36 dBmV (7 non-adjust channels), 24 dBmV (36 non-adjust channels)

|                              |            |                 |         |
|------------------------------|------------|-----------------|---------|
| Bandwidth                    | 54~450 MHz | Power Input     | 117 VAC |
| Gain 54~300 MHz              | 10 dB      | Power Frequency | 60 Hz   |
| Maximum Output (12 channels) | 34 dBmV    | Power Required  | 2 Watt  |
| Flatness                     | 1 dB       | Weight          | 2.1 lbs |
| Noise Figure                 | 4 dB       |                 |         |



# XSV

Sub Band to VHF Band  
Block Converter

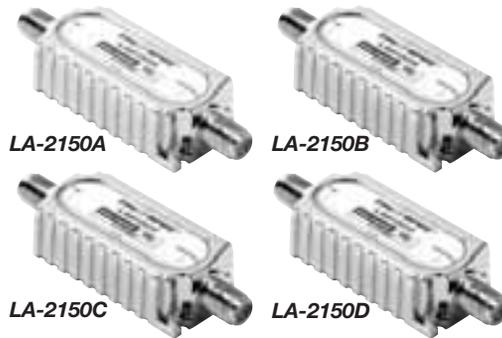


- ◆ 7 Channel Input Range 5~49 MHz (CATV Sub Band)
- ◆ 7 Channel Output Range 174~216 MHz (TV VHF 7~13)
- ◆ Low insertion loss improves carrier to noise performance
- ◆ Full Band conversion allows monitoring and testing of data carriers
- ◆ PLL-design guarantees precise frequency locking for solid drift-free operation
- ◆ External UL approved power adapter supplied for ease of installation and to reduce heat build-up within the unit

|                             |                 |  |
|-----------------------------|-----------------|--|
| Input Bandwidth             | 5~49 MHz        | F-female                                 |
| Input Level (max)           | 5~30 dBmV       | Voltage Input 18 VDC                     |
| Input Connection            | 75 Ohm F-female | Voltage Frequency 0 Hz                   |
| Output Bandwidth            | 174~216 MHz     | Power Required 100 mA                    |
| Insertion Loss              | 4 dB            | Dimensions 6.8"(L) x 2.99"(D) x 1.65"(H) |
| Frequency Accuracy          | ±5 kHz          | Weight 0.8 lbs.                          |
| Carrier to Noise (out-band) | 57 dB           |  |
| Output Connection           | 75 Ohm          |  |

# LA-2150 Series

Satellite IF Inline Amplifiers



- ◆ High-Grade Satellite IF Inline Amplifiers suitable for DBS or MMDS Satellite applications
- ◆ Available in 950~2150 MHz for Satellite only applications, or 40~2150 MHz for Satellite and Terrestrial applications
- ◆ 16~20 dB sloped versions compensate for loss on long cable runs
- ◆ DC Pass-Thru Current 500 mA maximum for LNB Powering
- ◆ Output Level 105 dBμV Maximum
- ◆ High Performance SMD Board Circuitry
- ◆ Precision Machined F connector Threads
- ◆ Soldered back-cover plate ensures high isolation >120 dB
- ◆ Nickel Plated Zinc-Alloy Die-Cast Housing

|                   |   |                |           |
|-------------------|---|----------------|-----------|
| Bandwidth         | 40~2150 MHz (LA-2150A/B)<br>950~2150 MHz (LA-2150C/D) | Noise Figure   | 5 dB      |
| Gain 40~2150 MHz  | 20 dB (LA-2150A)<br>16~20 dB sloped (LA-2150B)        | Power Input    | 12~18 VDC |
| Gain 950~2150 MHz | 20 dB (LA-2150C)<br>16~20 dB sloped (LA-2150D)        | Power Required | 0.7 Watt  |
|                   |   | Weight         | 0.25 lbs  |

## Ordering Information

|                 |                              |
|-----------------|------------------------------|
| <b>LA-2150A</b> | 20 dB 40-2150 MHz            |
| <b>LA-2150B</b> | 16-20 dB Sloped 40-2150 MHz  |
| <b>LA-2150C</b> | 20 dB 950-2150 MHz           |
| <b>LA-2150D</b> | 16-20 dB Sloped 950-2150 MHz |

# LA-10

11 dB 5~950 MHz Inline  
MATV Amplifier



- ◆ MATV Inline Amplifier suitable for MATV Applications
- ◆ Used with PS10 Power Inserter-Diplexer
- ◆ 120VAC 60Hz 7.5W
- ◆ DC-Line Powered Requirements 10 VDC 45 mA
- ◆ DC Pass-Thru Current 500mA maximum for powering down converters and other amplifiers
- ◆ Maximum Input 28 dBmV (7 Channels)
- ◆ Precision Machined F-Connector Threads
- ◆ Nickel Plated Metal Outdoor Housing

|                               |             |                |           |
|-------------------------------|-------------|----------------|-----------|
| Bandwidth                     | 5~950 MHz   | Noise Figure   | 4 dB      |
| Gain                          | 5~950 11 dB | Power Input    | 10 VDC    |
| Maximum Output (125 channels) | 18 dBmV     | Power Required | 0.45 Watt |
| Flatness                      | 2 dB        | Weight         | 0.25 lbs  |

# PS Series

## Power Inserter-Diplexers



- ◆ Wideband frequency response allows use in broadband two-way systems
- ◆ Power injector suitable for supplying power upstream to amplifiers and block downconverters
- ◆ Hard-wired transformer to injector interface eliminates accidental power interruptions
- ◆ Directional power insertion protects downstream components from unwanted voltage damage
- ◆ RF choke circuitry in power injector eliminates signals radiating from transformer
- ◆ Precision Machined F-Connector Threads provide solid connection interface

|                  |                 |               |
|------------------|-----------------|---------------|
| Bandwidth        | 5~950 MHz       | F-male        |
| Insertion Loss   | 1 dB            | Input Voltage |
| Input Connector  | 75 Ohm F-female | 115 VAC       |
| Output Connector | 75 Ohm          |               |

### Ordering Information

|           |                 |
|-----------|-----------------|
| PS-10     | 10 VDC @ 100 mA |
| PS-12     | 12 VDC @ 350 mA |
| PS-20-350 | 20 VDC @ 350 mA |
| PS-20-850 | 20 VDC @ 850 mA |

# Custom Power Supply



- ◆ Wideband or Narrowband frequency response allows use in broad or specific applications
- ◆ Separate power injector available for supplying power to equipment in the upstream or downstream configuration
- ◆ Optional hard-wired transformer to injector or transformers with F-type interface provides user flexibility
- ◆ Directional power insertion protects downstream components from unwanted voltage damage
- ◆ RF choke circuitry in power injector eliminates signals radiating from transformer
- ◆ Precision Machined F-Connector Threads provide solid connection interface

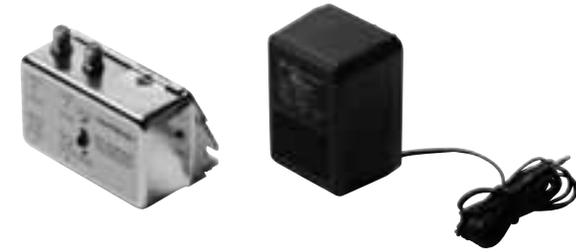
|                 |                 |                      |
|-----------------|-----------------|----------------------|
| Bandwidth       | 5~2300 MHz      | 115/240 VAC 50/60 Hz |
| Insertion Loss  | < -2 dB         | Output Voltage       |
| Input Connector | F/BNC/RCA/Other | 5~60 VAC             |
| Input Voltage   |                 |                      |

### Ordering Information

Call for Custom Power Supply Quote (minimum order quantities may apply)

# SPI-14/18-2150

## 400-2150 MHz Satellite Inline Power Inserters



- ◆ TruSpec power inserters supply constant DC voltage to C/Ku or DSS Satellite LNBs, microwave downconverters and in-line amplifiers
- ◆ Plug-in External UL Power Wall Adapter Included
- ◆ Input Voltage 120VAC 60Hz 35W
- ◆ Operating Frequency 400~2150 MHz
- ◆ 2 Independent Paths
- ◆ Output Voltage Selection Switch 13~14/17~18 or 17~18/17~18 VDC 600 mA
- ◆ Insertion Loss 2 dB  $\pm$ 1 dB
- ◆ Isolation 65 dB

|                  |                 |                       |               |
|------------------|-----------------|-----------------------|---------------|
| Bandwidth        | 400~2150 MHz    | Output Voltage Port 1 | 18 VDC        |
| Insertion Loss   | 2 dB            | Output Voltage Port 2 | 14/18 VDC sw. |
| Isolation        | 65 dB           | LNB Current Each Path | 600 mA        |
| Input Connector  | 75 Ohm F-female |                       |               |
| Output Connector | 75 Ohm F-male   |                       |               |
| Input Voltage    | 117 VAC         |                       |               |

# TSMS-5/8

Satellite IF Multiswitch



- ◆ Wideband frequency range 40 up to 2300 MHz
- ◆ 4 satellite inputs compatible with multi-satellite services providing 4 polarities selected by receiver-supplied voltage 13~14V/17~18 VDC and 22 kHz tone
- ◆ 22 kHz continuous tone provides full compatibility with DIRECTV phase 3 ODU reception devices Satellite IF Multiswitches
- ◆ Built-in low-distortion amplifier compensates for insertion loss reducing need for external amplification
- ◆ 8 outputs enable signals to be routed to up to eight receivers
- ◆ Antenna signal combines with satellite on output, eliminating external combining, reducing cost and clutter
- ◆ Power supply included to supply voltage to LNBS

|                           |             |                      |                    |
|---------------------------|-------------|----------------------|--------------------|
| Bandwidth                 | 54~2300 MHz | Cross Polarity       | 25 dB              |
| Antenna Loss              | 5 dB        | LNB Current Capacity | 600 mA             |
| Satellite Loss            | 5 dB        | Dimensions           | 9.9" x 5.3" x 1.0" |
| Isolation (input-input)   | 30 dB       | Weight               | 2.8 lbs            |
| Isolation (output-output) | 25 dB       |                      |                    |

# TSMS-4/8

Satellite IF Multiswitch



- ◆ Wideband frequency range 950 up to 2300 MHz
- ◆ 4 satellite inputs compatible with multi-satellite services providing 4 polarities selected by receiver-supplied voltage 13~14V/17~18 VDC and 22 kHz tone
- ◆ 22 kHz continuous tone provides full compatibility with DIRECTV phase 3 ODU reception devices Satellite IF Multiswitches
- ◆ Built-in low-distortion amplifier compensates for insertion loss reducing need for external amplification
- ◆ 8 outputs enable signals to be routed to up to eight receivers
- ◆ High performance SMD multi-layered printed-circuit board design ensures high port-to-port isolation to provide spurious carrier protection and to minimize undesired channel interaction
- ◆ Power supply included to supply voltage to LNBS

|                           |              |                      |                    |
|---------------------------|--------------|----------------------|--------------------|
| Bandwidth                 | 950~2300 MHz | Cross Polarity       | 40 dB              |
| Satellite Loss            | 0 dB         | LNB Current Capacity | 600 mA             |
| Isolation (input-input)   | 40 dB        | Dimensions           | 9.9" x 5.3" x 1.0" |
| Isolation (output-output) | 40 dB        | Weight               | 2.3 lbs            |

# TSMS-3/8

Satellite IF Multiswitch



- ◆ Wideband frequency range 40 up to 2300 MHz
- ◆ Built-in low-distortion amplifier compensates for insertion loss reducing need for external amplification
- ◆ 8 outputs enable signals to be routed to up to eight receivers
- ◆ Ideal for use with DIRECTV and other Direct to Home satellite services providing voltage switching for polarity selection operation
- ◆ Antenna signal combines with satellite on output, eliminating external combining, reducing cost and clutter
- ◆ High performance SMD multi-layered printed-circuit board design ensures high port-to-port isolation to provide spurious carrier protection and to minimize undesired channel interaction

|                           |             |                      |                    |
|---------------------------|-------------|----------------------|--------------------|
| Bandwidth                 | 54~2300 MHz | Cross Polarity       | 20 dB              |
| Antenna Loss              | 8 dB        | LNB Current Capacity | 600 mA             |
| Satellite Loss            | 12 dB       | Dimensions           | 5.8" x 5.0" x 1.3" |
| Isolation (input-input)   | 26 dB       | Weight               | 0.9 lbs            |
| Isolation (output-output) | 20 dB       |                      |                    |

# TSMS2150-5/4

Satellite IF Multiswitch



- ◆ Wideband frequency range 40 up to 2150 MHz
- ◆ 4 satellite inputs compatible with multi-satellite services providing 4 polarities selected by receiver-supplied voltage 13~14V/17~18 VDC and 22 kHz tone
- ◆ Built-in low-distortion amplifier compensates for insertion loss reducing need for external amplification
- ◆ 4 outputs enable signals to be routed to four receivers
- ◆ Antenna signal combines with satellite on output, eliminating external combining, reducing cost and clutter
- ◆ High performance SMD multi-layered printed-circuit board design ensures high port-to-port isolation to provide spurious carrier protection and to minimize undesired channel interaction
- ◆ Power supply included to supply voltage to LNBS

|                           |             |                      |                     |
|---------------------------|-------------|----------------------|---------------------|
| Bandwidth                 | 54~2150 MHz | Cross Polarity       | 25 dB               |
| Antenna Gain              | 6 dB        | LNB Current Capacity | 600 mA              |
| Satellite Loss            | 10 dB       | Dimensions           | 5.5" x 5.15" x 1.0" |
| Isolation (input-input)   | 25 dB       | Weight               | 1.5 lbs             |
| Isolation (output-output) | 30 dB       |                      |                     |

# TSMS2150-4A

Satellite IF Multiswitch



- ◆ Wideband frequency range 40 up to 2150 MHz
- ◆ Built-in low-distortion amplifier compensates for insertion loss reducing need for external amplification
- ◆ 4 outputs enable signals to be routed to four receivers
- ◆ Ideal for use with DIRECTV and other Direct to Home satellite services providing voltage switching for polarity selection operation
- ◆ Antenna signal combines with satellite on output, eliminating external combining, reducing cost and clutter
- ◆ High performance SMD multi-layered printed-circuit board design ensures high port-to-port isolation to provide spurious carrier protection and to minimize undesired channel interaction

|                           |             |                      |                     |
|---------------------------|-------------|----------------------|---------------------|
| Bandwidth                 | 54~2150 MHz | Cross Polarity       | 20 dB               |
| Antenna Gain              | 2 dB        | LNB Current Capacity | 600 mA              |
| Satellite Gain            | 2 dB        | Dimensions           | 4.4" x 3.6" x 0.80" |
| Isolation (input-input)   | 36 dB       | Weight               | 0.5 lbs             |
| Isolation (output-output) | 26 dB       |                      |                     |

# TSMS2150-4

Satellite IF Multiswitch



- ◆ Wideband frequency range 40 up to 2150 MHz
- ◆ 4 outputs enable signals to be routed to four receivers
- ◆ Ideal for use with DIRECTV and other Direct to Home satellite services providing voltage switching for polarity selection operation
- ◆ Antenna signal combines with satellite on output, eliminating external combining, reducing cost and clutter
- ◆ High performance SMD multi-layered printed-circuit board design ensures high port-to-port isolation to provide spurious carrier protection and to minimize undesired channel interaction
- ◆ High-performance PIN diode matrix reduces polarity transfer time and digital artifacts providing consistent picture quality

|                           |             |                      |                     |
|---------------------------|-------------|----------------------|---------------------|
| Bandwidth                 | 54~2150 MHz | Cross Polarity       | 25 dB               |
| Antenna Loss              | 7 dB        | LNB Current Capacity | 600 mA              |
| Satellite Loss            | 12 dB       | Dimensions           | 5.8" x 4.2" x 0.83" |
| Isolation (input-input)   | 35 dB       | Weight               | 0.8 lbs             |
| Isolation (output-output) | 26 dB       |                      |                     |



## TSMS-3/4

Satellite IF Multiswitch



- ◆ Wideband frequency range 40 up to 2300 MHz
- ◆ Built-in low-distortion amplifier compensates for insertion loss reducing need for external amplification
- ◆ 4 outputs enable signals to be routed to four receivers
- ◆ Ideal for use with DIRECTV and other Direct to Home satellite services providing voltage switching for polarity selection operation
- ◆ Antenna signal combines with satellite on output, eliminating external combining, reducing cost and clutter
- ◆ High performance SMD multi-layered printed-circuit board design ensures high port-to-port isolation to provide spurious carrier protection and to minimize undesired channel interaction

|                           |             |                      |                    |
|---------------------------|-------------|----------------------|--------------------|
| Bandwidth                 | 54-2300 MHz | Cross Polarity       | 20 dB              |
| Antenna Gain              | 3 dB        | LNB Current Capacity | 600 mA             |
| Satellite Loss            | 7 dB        | Dimensions           | 5.8" x 5.0" x 1.3" |
| Isolation (input-input)   | 40 dB       | Weight               | 0.8 lbs            |
| Isolation (output-output) | 30 dB       |                      |                    |

## TSMS-4C

Satellite IF Multiswitch



- ◆ Wideband frequency range 40 up to 2300 MHz
- ◆ Compact size enables placement where larger equipment won't fit
- ◆ Built-in low-distortion amplifier compensates for insertion loss reducing need for external amplification
- ◆ 4 outputs enable signals to be routed to four receivers
- ◆ Ideal for use with DIRECTV and other Direct to Home satellite services providing voltage switching for polarity selection operation
- ◆ Antenna signal combines with satellite on output, eliminating external combining, reducing cost and clutter
- ◆ High performance SMD multi-layered printed-circuit board design ensures high port-to-port isolation to provide spurious carrier protection and to minimize undesired channel interaction

|                           |             |                      |                     |
|---------------------------|-------------|----------------------|---------------------|
| Bandwidth                 | 54-2150 MHz | Cross Polarity       | 20 dB               |
| Antenna Loss              | 14 dB       | LNB Current Capacity | 600 mA              |
| Satellite Loss            | 13 dB       | Dimensions           | 4.4" x 3.6" x 0.80" |
| Isolation (input-input)   | 25 dB       | Weight               | 0.5 lbs             |
| Isolation (output-output) | 25 dB       |                      |                     |

## VSS-52R

5X2 Matrix Switch



- ◆ Built-in microprocessor control provides touch control instant switching of five inputs and two independent outputs
- ◆ Convenient remote control enables on-the-fly selection from up to 25 feet
- ◆ Multiple video input types provide maximum interface compatibility
- ◆ Internal amplifier ensures maintenance of high quality picture
- ◆ Quick switch status provided by front panel LED (source, output, standby)
- ◆ S-Video, composite video and L/R audio patch cable provided

|                 |                         |                 |                              |
|-----------------|-------------------------|-----------------|------------------------------|
| Frequency Range | 20Hz-10 MHz             | Video Impedance | 75 Ohm                       |
| Input Video     | 5 x S-video, RCA-Comp.  | Audio Impedance | 47 Ohm                       |
| Input Audio     | 5 x RCA-Audio (L and R) | Power Input     | 120 VAC                      |
| Output Video    | 2 x S-video, RCA-Comp.  | Power Frequency | 60 Hz                        |
| Output Audio    | 2 x RCA-Audio (L and R) | Power Required  | 250 mA                       |
|                 |                         | Dimensions      | 11.4"(L) x 7.3"(D) x 2.1"(H) |
|                 |                         | Weight          | 1.2 kg                       |

# VSM-3/4S

Channel 3/4 Consumer Audio-Video Modulator



- ◆ Low-cost channel 3/4 auto switching A/V Modulator connects DVD, VCR, Satellite, Security video or other Video Equipment to standard TV sets with F-type RF only input connectors
- ◆ S-Video Connection provides clearer reception than standard video connection
- ◆ RCA connectors provide for easy patch cable connection
- ◆ F-type RF Connectors provides simple coax cable loop-thru
- ◆ Rear Panel Channel 3 or 4 Selection Switch reduces interference from external sources
- ◆ Low insertion loss on antenna loop through connections

|                          |                       |                          |                           |
|--------------------------|-----------------------|--------------------------|---------------------------|
| Output Frequency Range   | 60~72 MHz             | Video Hum and Noise      | -60 dB                    |
| Tuning                   | Agile                 | Audio Input Type         | Monaural baseband         |
| RF Output Level (min)    | 5 dBmV                | Audio Input Level        | 0.5 Vp-p                  |
| RF A/V Ratio             | -16 dB                | Audio Frequency Response | 50~15,000 Hz              |
| Spurious Output          | 36 dB                 | Audio Pre-emph.          | 75 µsec                   |
| Frequency Stability      | ±10 kHz               | Video Input Conn.        | RCA-Fem                   |
| Video Input Type         | Clamped negative sync | Audio Input Conn.        | RCA-Fem                   |
| Video Input Bandwidth    | 4.2 MHz               | RF Output Conn.          | 75Ω F-Fem                 |
| Video Input Level        | 1 Vp-p                | Voltage Input            | 115 VAC                   |
| Video Input Range        | .5~1 Vp-p             | Dimensions               | 5.9"(L) x 3"(D) x 1.4"(H) |
| Video Frequency Response | ±1.5 dB               | Weight                   | 1 lb.                     |

# USM-20D3

UHF Consumer Agile Triple Audio-Video Modulator



- ◆ Low-cost UHF A/V Agile Modulator adds three Satellite, VCR, or Security Video channels to home distribution network over ultra-band and UHF band NTSC TV channels 14~83, CATV channels 65~139
- ◆ High Output 20 dBmV minimum, 25 dBmV typical provides ample signal for multiple consumer devices
- ◆ Excellent Frequency Stability for consistent reliable pictures
- ◆ RCA type Input and F-type output connections provide compatibility with consumer equipment

|                          |                       |                          |                             |
|--------------------------|-----------------------|--------------------------|-----------------------------|
| Output Frequency Range   | 470~890 MHz           | Video Hum and Noise      | -60 dB                      |
| Tuning                   | Agile                 | Audio Input Type         | Monaural baseband           |
| RF Output Level (min)    | 22 dBmV               | Audio Input Level        | 0.5 Vp-p                    |
| RF Output Range          | -15 dBmV              | Audio Frequency Response | 50~15,000 Hz                |
| RF A/V Ratio             | -16 dB                | Audio Pre-emphasis       | 75 µsec                     |
| Spurious Output          | 42 dB                 | Video Input Conn.        | RCA-Fem                     |
| Frequency Stability      | ±10 kHz               | Audio Input Conn.        | RCA-Fem                     |
| Video Input Type         | Clamped negative sync | RF Output Conn.          | 75Ω F-Fem                   |
| Video Input Bandwidth    | 4.2 MHz               | Voltage Input            | 115 VAC                     |
| Video Input Level        | 1 Vp-p                | Dimensions               | 5.6"(L) x 1.1"(D) x 3.9"(H) |
| Video Input Range        | .5~1 Vp-p             | Weight                   | 1.75 lbs.                   |
| Video Frequency Response | ±1.5 dB               |                          |                             |

# USM-8D

UHF Consumer Agile Audio-Video Modulator



- ◆ Low-cost UHF A/V Agile Modulator adds Satellite, VCR or Security Video channels to home distribution network over ultra-band and UHF band NTSC TV channels 14~83, CATV channels 65~139
- ◆ High Output 7 dBmV minimum, 10 dBmV typical provides ample signal for multiple consumer devices
- ◆ Excellent Frequency Stability for consistent reliable pictures
- ◆ RCA type Input and F-type output connections provide compatibility with consumer equipment
- ◆ LED Digital Display Provides simplified front panel pushbutton setup
- ◆ External UL Power Adapter Input 120V 60Hz 9W

|                          |                       |                          |                              |
|--------------------------|-----------------------|--------------------------|------------------------------|
| Output Frequency Range   | 470~890 MHz           | Audio Input Type         | Monaural baseband            |
| Tuning                   | Agile                 | Audio Input Level        | 0.5 Vp-p                     |
| RF Output Level (min)    | 5 dBmV                | Audio Frequency Response | 50~15,000 Hz                 |
| RF A/V Ratio             | -16 dB                | Audio Pre-emphasis       | 75 µsec                      |
| Spurious Output          | 46 dB                 | Video Input Conn.        | RCA-Fem                      |
| Frequency Stability      | ±10 kHz               | Audio Input Conn.        | RCA-Fem                      |
| Video Input Type         | Clamped negative sync | RF Output Conn.          | 75Ω F-Fem                    |
| Video Input Bandwidth    | 4.2 MHz               | Voltage Input            | 115 VAC                      |
| Video Input Level        | 1 Vp-p                | Dimensions               | 3.4"(L) x 1.1"(D) x 3.75"(H) |
| Video Input Range        | .5~1 Vp-p             | Weight                   | 1.15 lbs.                    |
| Video Frequency Response | ±1.5 dB               |                          |                              |
| Video Hum and Noise      | -60 dB                |                          |                              |



*Distribution Active Components*



**B-14**