

# CSMAPDU9VPI



HomeConnect® Passive VoIP Amplifier with MoCA Connectivity, unity forward/reverse, Standard Split, 1.0 GHz Forward, 42 MHz return, nine ports, with power inserter

**OBSOLETE**

## Product Classification

<b>Product Type</b>	RF amplifier
<b>Product Brand</b>	HomeConnect®

## General Specifications

<b>Device Type</b>	All ports down amplifier   Two-way subscriber amplifier   VoIP subscriber amplifier
<b>Application</b>	Indoor   Outdoor
<b>Patent Number</b>	7912431 (expires 8/2/2025)
<b>Video Ports, quantity</b>	8
<b>Video Standard</b>	NTSC
<b>VoIP Passive Ports, quantity</b>	1

## Electrical Specifications

<b>Distortion Performance (CCN), minimum</b>	60 -dBc
<b>Distortion Performance (CSO), minimum</b>	65 -dBc
<b>Distortion Performance (CTB), minimum</b>	73 -dBc
<b>Distortion Performance (DSO), minimum</b>	55 -dBc
<b>Distortion Performance (DTO), minimum</b>	60 -dBc
<b>Distortion Performance (X-Mod), minimum</b>	73 -dB
<b>Group Delay, 2nd channel, maximum</b>	30 ns
<b>Group Delay, channel 3, maximum</b>	15 ns
<b>Group Delay, channel 4–6, maximum</b>	5 ns
<b>Group Delay, reverse, maximum</b>	25 ns
<b>Hum Modulation, minimum</b>	-75 dB
<b>Impedance</b>	75 ohm

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<b>Operating Current at Voltage</b>	380 mA @ 15 Vdc
<b>Shielding Effectiveness, minimum</b>	100 dB
<b>Surge Capability Test Method</b>	ANSI/SCTE 81   IEEE C62.41-B3 (6 kV, 3000 A, Combination wave) on all ports
<b>Surge Capability Waveform</b>	1.2/50 voltage and 8/20 current combination waveform   100 kHz ring wave waveform

## Electrical Specifications, Isolation

<b>Isolation at Frequency Band, output to output, minimum</b>	25 dB @ 5–1002 MHz
<b>Isolation at Frequency Band, output to VoIP, minimum</b>	25 dB @ 5–1002 MHz
<b>Isolation at Frequency Band, power port to RF output, minimum</b>	60 dB @ 5–1002 MHz
<b>Isolation at Frequency Band, VoIP to output, minimum</b>	25 dB @ 5–1002 MHz

## Electrical Specifications, MoCA

<b>Band Rejection, output to input, minimum</b>	40 dB
<b>Band Rejection, VOIP to input, minimum</b>	35 dB
<b>Insertion Loss, output to output, maximum</b>	35 dB
<b>Insertion Loss, output to VOIP, maximum</b>	35 dB
<b>Insertion Loss, VOIP to output, maximum</b>	35 dB
<b>Operating Frequency Band</b>	1125 – 1675 MHz

## Electrical Specifications, Rx (Uplink)

<b>Flatness</b>	±1.0 dB
<b>Insertion Loss, video ports</b>	0 dB
<b>Return Loss, minimum</b>	20 dB
<b>Noise Figure, maximum</b>	18 dB
<b>Operating Frequency Band</b>	5 – 42 MHz

## Electrical Specifications, Tx (Downlink)

<b>Flatness</b>	±1.0 dB
<b>Gain, video ports</b>	0 dB
<b>Noise Figure, maximum</b>	10.5 dB
<b>Operating Frequency Band</b>	54 – 1002 MHz
<b>Return Loss, minimum</b>	20 dB

## Electrical Specifications, VoIP

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<b>Insertion Loss Rx at Frequency Band, VoIP ports, maximum</b>	4.3 dB @ 5–42 MHz
<b>Insertion Loss Tx at Frequency Band, VoIP ports, maximum</b>	4.5 dB @ 54–550 MHz   6.5 dB @ 550–1002 MHz
<b>Return Loss at Frequency Band, VoIP ports, minimum</b>	20 dB @ 5–1002 MHz

## Environmental Specifications

<b>Operating Temperature</b>	-40 °C to +60 °C (-40 °F to +140 °F)
<b>Safety Standard</b>	SCTE

## Packaging and Weights

<b>Height, packed</b>	230.124 mm   9.06 in
<b>Width, packed</b>	385.064 mm   15.16 in
<b>Length, packed</b>	445.008 mm   17.52 in
<b>Carton Quantity</b>	20
<b>Included</b>	Power adapter   Power inserter
<b>Weight, gross</b>	12.306 kg   27.13 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant



## Included Products

CMD/CSAPAE615V500	–	Power Adapter for Subscriber Amplifiers, CMD, ac/dc, 15 V, 500 mA, EISA VI
CSHMPIE	–	HomeConnect® Power Inserter for Subscriber Amplifiers with High Isolation, Copper Nickel Plated Zinc Housing

## \* Footnotes

<b>Distortion Performance (CCN), minimum</b>	CCN—Composite Carrier to Noise; 77 analog, 110 digital—256 QAM channel loading
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<b>Distortion Performance (CSO), minimum</b>	CSO—Composite Second Order; 77 analog, 110 digital—256 QAM channel loading
<b>Distortion Performance (CTB), minimum</b>	CTB—Composite Triple Beat; 77 analog, 110 digital—256 QAM channel loading
<b>Distortion Performance (DSO), minimum</b>	DSO—Discrete Second Order; 13 MHz and 19 MHz, 55 dBmV per carrier loading
<b>Distortion Performance (DTO), minimum</b>	DTO—Discrete Third Order; 13 MHz and 19 MHz, 55 dBmV per carrier loading
<b>Distortion Performance (X-Mod), minimum</b>	X-Mod—Cross Modulation; 77 analog, 110 digital—256 QAM channel loading
<b>Group Delay, 2nd channel, maximum</b>	Channel (3.58 MHz Span)
<b>Group Delay, channel 3, maximum</b>	Channel (3.58 MHz Span)
<b>Group Delay, channel 4–6, maximum</b>	Channel 2 (3.58 MHz Span)
<b>Noise Figure, maximum</b>	Total amplifier contribution
<b>Noise Figure, maximum</b>	Total amplifier contribution

# CMD/CSAPAE615V500



Power Adapter for Subscriber Amplifiers, CMD, ac/dc, 15 V, 500 mA, EISA VI

## Product Classification

<b>Product Type</b>	RF amplifier power adapter
<b>Product Brand</b>	HomeConnect®

## General Specifications

<b>Plug Type</b>	Type A
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## Electrical Specifications

<b>Input Current, maximum</b>	190 mA
<b>Input Voltage, specific</b>	100-240 Vac @ 50-60 Hz
<b>Output Load Regulation Tolerance, maximum</b>	±5%
<b>Output Power, maximum</b>	7.5 W
<b>Output Voltage Ripple, maximum</b>	150 mVpp
<b>Inrush Current, maximum</b>	30 A
<b>Operating Current at Voltage</b>	500 mA @ 15 Vdc

## Environmental Specifications

<b>Energy Efficiency Standard</b>	EISA 2016, Level 6
<b>Safety Standard</b>	c-UL-us

## Packaging and Weights

<b>Height, packed</b>	360.68 mm   14.2 in
<b>Width, packed</b>	304.8 mm   12 in
<b>Length, packed</b>	594.36 mm   23.4 in
<b>Carton Quantity</b>	100

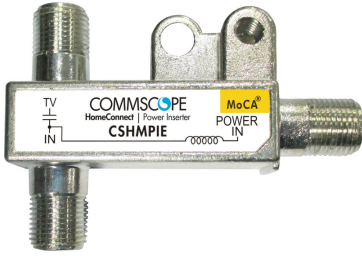
# CMD/CSAPAE615V500

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**Weight, gross**

11.34 kg | 25 lb

# CSHMPIE



HomeConnect® Power Inserter for Subscriber Amplifiers with High Isolation, Copper Nickel Plated Zinc Housing

## Product Classification

<b>Product Type</b>	Power inserter
<b>Product Brand</b>	HomeConnect®

## General Specifications

<b>Device Type</b>	Power inserter
<b>Application</b>	Directs power to the amplifiers by combining the power and RF paths directly

## Electrical Specifications

<b>Insertion Loss at Frequency Band, maximum</b>	0.5 dB @ 5–1002 MHz   0.8 dB @ 1002–1218 MHz   1 dB @ 1275–1800 MHz
<b>Return Loss at Frequency Band, input, minimum</b>	15 dB @ 1275–1800 MHz   20 dB 5–1218 MHz
<b>Return Loss at Frequency Band, output, minimum</b>	15 dB @ 1275–1800 MHz   20 dB 5–1218 MHz
<b>Operating Current at Voltage</b>	1.5 A @ 25 Vdc
<b>Operating Frequency Band</b>	5 – 1800 MHz
<b>Shielding Effectiveness</b>	105
<b>Surge Capability Test Method</b>	ANSI/SCTE 81   IEEE C62.41-B3 (6 kV, 3000 A, Combination wave) on all ports
<b>Voltage Range</b>	8–25 Vdc

## Electrical Specifications, Isolation

<b>Isolation at Frequency Band, power port to input, minimum</b>	65 dB @ 1275-1800 MHz   70 dB @ 800-1218 MHz   75 dB @ 5-800 MHz
<b>Isolation at Frequency Band, power port to TV, minimum</b>	65 dB @ 1275-1800 MHz   70 dB @ 800-1218 MHz   75 dB @ 5-800 MHz

## Mechanical Specifications

# CSHMPIE

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## Transportation Vibration Standard

Category A

## Environmental Specifications

### Operating Temperature

-40 °C to +65 °C (-40 °F to +149 °F)

### Operating Humidity

5%–95%

### Operating Altitude

–60 meters to 4,000 meters AMSL

## Packaging and Weights

### Height, packed

219.964 mm | 8.66 in

### Width, packed

219.964 mm | 8.66 in

### Length, packed

549.91 mm | 21.65 in

### Carton Quantity

400

### Weight, gross

17.799 kg | 39.24 lb

## Regulatory Compliance/Certifications

### Agency

### Classification

CHINA-ROHS

Below maximum concentration value

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system

REACH-SVHC

Compliant as per SVHC revision on [www.commscope.com/ProductCompliance](http://www.commscope.com/ProductCompliance)

ROHS

Compliant

UK-ROHS

Compliant

