

# SVA15PRSMI



HomeConnect® Mini Subscriber Amplifier, 15 dB, one port, with power inserter

**OBSOLETE**

## Product Classification

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

## General Specifications

<b>Device Type</b>	Subscriber amplifier
<b>Application</b>	Indoor   Outdoor
<b>Video Ports, quantity</b>	1
<b>Video Standard</b>	NTSC

## Electrical Specifications

<b>Distortion Performance (CCN), minimum</b>	70 -dBc
<b>Distortion Performance (CSO), minimum</b>	65 -dBc
<b>Distortion Performance (CTB), minimum</b>	80 -dBc
<b>Distortion Performance (X-Mod), minimum</b>	75 -dB
<b>Group Delay, channel 2–4, maximum</b>	20 ns
<b>Group Delay, channel 5–6, maximum</b>	5 ns
<b>Group Delay, reverse, maximum</b>	20 ns
<b>Hum Modulation, minimum</b>	-75 dB
<b>Impedance</b>	75 ohm
<b>Operating Current at Voltage</b>	200 mA @ 12 Vdc
<b>Shielding Effectiveness, minimum</b>	100 dB

# SVA15PRSMI

## Surge Capability Test Method

ANSI/SCTE 81 | IEEE C62.41-A3 (6 kV, 200 A, Ring wave) on all ports | IEEE C62.41-B3 (6 kV, 3000 A, Combination wave) on input port

## Surge Capability Waveform

1.2/50 voltage and 8/20 current combination waveform | 100 kHz ring wave waveform

## Electrical Specifications, Isolation

### Isolation at Frequency Band, power port to RF output, minimum

55 dB @ 5–1002 MHz

## Electrical Specifications, Rx (Uplink)

### Flatness

±0.5 dB

### Insertion Loss, maximum

1.2 dB

### Return Loss, minimum

20 dB

### Operating Frequency Band

5 – 42 MHz

## Electrical Specifications, Tx (Downlink)

### Flatness

±0.75 dB

### Gain

15 dB

### Noise Figure, maximum

4 dB

### Operating Frequency Band

53 – 1002 MHz

### Return Loss, minimum

20 dB

## Environmental Specifications

### Operating Temperature

-40 °C to +60 °C (-40 °F to +140 °F)

### Safety Standard

CE | SCTE

## Packaging and Weights

### Height, packed

7.5 in | 190.5 mm

### Width, packed

9 in | 228.6 mm

### Length, packed

18.5 in | 469.9 mm

### Carton Quantity

20

### Included

Power adapter | Power inserter

### Weight, gross

18.5 lb | 8.391 kg

## Regulatory Compliance/Certifications

### Agency

### Classification

# SVA15PRSMI

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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



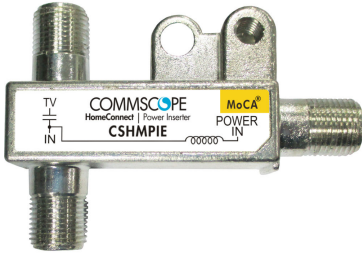
## Included Products

CSHMPIE	-	HomeConnect® Power Inserter for Subscriber Amplifiers with High Isolation, Copper Nickel Plated Zinc Housing
SVAPA12V200	-	HomeConnect® Power Adapter for Subscriber Amplifiers, ac/dc, 12 V, 200 mA

## \* Footnotes

<b>Distortion Performance (CCN), minimum</b>	CCN—Composite Carrier to Noise; 77 analog, 110 digital—256 QAM channel loading
<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 (X-Mod), minimum</b>	X-Mod—Cross Modulation; 77 analog, 110 digital—256 QAM channel loading
<b>Group Delay, channel 2–4, maximum</b>	Channel 2 (3.58 MHz Span)
<b>Group Delay, channel 5–6, maximum</b>	Channel 4–6 (3.58 MHz Span)
<b>Noise Figure, maximum</b>	Total amplifier contribution

# 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



# SVAPA12V200



HomeConnect® Power Adapter for Subscriber Amplifiers, ac/dc, 12 V, 200 mA

## 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>	50 mA
<b>Input Voltage @ Voltage at Frequency</b>	120 Vac @ 60 Hz
<b>Output Voltage Tolerance, no load</b>	±5%
<b>Output Voltage, no load</b>	20.2 Vdc
<b>Operating Current at Voltage</b>	200 mA @ 12 Vdc

## Environmental Specifications

<b>Safety Standard</b>	c-UL-us
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## Packaging and Weights

<b>Height, packed</b>	292.1 mm   11.5 in
<b>Width, packed</b>	279.4 mm   11 in
<b>Length, packed</b>	444.5 mm   17.5 in
<b>Carton Quantity</b>	100
<b>Weight, gross</b>	18.144 kg   40 lb

## Regulatory Compliance/Certifications

Agency	Classification
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# SVAPA12V200

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ISO 9001:2015

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

