

# SVA15PRSN



HomeConnect® Nano Subscriber Amplifier, 15 dB, one port

**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>Patent Number</b>	8081427 (expires 7/31/2029)
<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

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<b>Shielding Effectiveness, minimum</b>	100 dB
<b>Surge Capability Test Method</b>	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
<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, power port to RF output, minimum</b>	55 dB @ 5–1002 MHz
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## Electrical Specifications, Rx (Uplink)

<b>Flatness</b>	±0.5 dB
<b>Insertion Loss, maximum</b>	1.2 dB
<b>Return Loss, minimum</b>	20 dB
<b>Operating Frequency Band</b>	5 – 42 MHz

## Electrical Specifications, Tx (Downlink)

<b>Flatness</b>	±1.0 dB
<b>Gain</b>	15 dB
<b>Noise Figure, maximum</b>	3.5 dB
<b>Operating Frequency Band</b>	53 – 1002 MHz
<b>Return Loss, minimum</b>	20 dB

## 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>	152.4 mm   6 in
<b>Width, packed</b>	190.5 mm   7.5 in
<b>Length, packed</b>	381 mm   15 in
<b>Carton Quantity</b>	20
<b>Included</b>	Power adapter
<b>Weight, gross</b>	4.99 kg   11 lb

## Regulatory Compliance/Certifications

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## Agency

CHINA-ROHS

ISO 9001:2015

REACH-SVHC

ROHS

UK-ROHS

## Classification

Below maximum concentration value

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

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

Compliant

Compliant



## Included Products

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