

# SVA154PRS



HomeConnect® Subscriber Amplifier, 15 dB, four ports

## Product Classification

Product Type	RF amplifier
Product Brand	HomeConnect®

## General Specifications

Device Type	Subscriber amplifier
Application	Indoor   Outdoor
Video Ports, quantity	4
Video Standard	NTSC

## Electrical Specifications

Distortion Performance (CCN), minimum	70 -dBc
Distortion Performance (CSO), minimum	62 -dBc
Distortion Performance (CTB), minimum	75 -dBc
Distortion Performance (X-Mod), minimum	75 -dB
Group Delay, channel 2–4, maximum	20 ns
Group Delay, channel 5–6, maximum	5 ns
Group Delay, reverse, maximum	20 ns
Hum Modulation, minimum	-75 dB
Impedance	75 ohm
Operating Current at Voltage	200 mA @ 12 Vdc
Shielding Effectiveness, minimum	100 dB
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

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## 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, output to output, minimum

25 dB @ 5–1002 MHz

### 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

8 dB

### Return Loss, minimum

20 dB

### Operating Frequency Band

5 – 42 MHz

## Electrical Specifications, Tx (Downlink)

### Flatness

±1.0 dB

### Gain

7.5 dB

### Noise Figure, maximum

4.5 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

190.5 mm | 7.5 in

### Width, packed

247.65 mm | 9.75 in

### Length, packed

508 mm | 20 in

### Carton Quantity

20

### Included

Power adapter

### Weight, gross

9.072 kg | 20 lb

## Regulatory Compliance/Certifications

### Agency

ISO 9001:2015

### Classification

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

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## Included Products

SVAPA12V200	–	HomeConnect® Power Adapter for Subscriber Amplifiers, ac/dc, 12 V, 200 mA
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## \* 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