

# SVA154PRS



HomeConnect® Subscriber Amplifier, 15 dB, four ports

**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> | 4                    |
| <b>Video Standard</b>        | NTSC                 |

## Electrical Specifications

|  |                 |
|--|-----------------|
| <b>Distortion Performance (CCN), minimum</b>   | 70 -dBc         |
| <b>Distortion Performance (CSO), minimum</b>   | 62 -dBc         |
| <b>Distortion Performance (CTB), minimum</b>   | 75 -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          |

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**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, 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

# SVA154PRS

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## Agency

ISO 9001:2015



## Classification

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

## 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   |