

# SVA1510AFRSM



HomeConnect® Two-way Mini Subscriber Amplifier, 15 dB forward, 10 dB reverse, one port

## Product Classification

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

## Environmental Specifications

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

## Electrical Specifications Rx (Uplink)

<b>Operating Frequency Band</b>	5 – 42 MHz
<b>Gain</b>	10.00 dB
<b>Flatness</b>	±1.0 dB
<b>Return Loss, minimum</b>	18.00 dB
<b>Noise Figure, maximum</b>	10.50 dB

## Electrical Specifications Tx (Downlink)

<b>Operating Frequency Band</b>	53 – 1002 MHz
<b>Gain</b>	15.00 dB
<b>Flatness</b>	±0.75 dB
<b>Return Loss, minimum</b>	18.00 dB
<b>Noise Figure, maximum</b>	4.50 dB

## Electrical Specifications Isolation

**Isolation at Frequency Band, power port to RF output, minimum** 55 dB @ 5–1002 MHz

## Electrical Specifications

<b>Impedance</b>	75 ohm
<b>Operating Current at Voltage</b>	300 mA @ 15 Vdc
<b>Distortion Performance (CTB), minimum</b>	75 -dBc

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<b>Distortion Performance (CSO), minimum</b>	62 -dBc
<b>Distortion Performance (X-Mod), minimum</b>	73 -dB
<b>Distortion Performance (CCN), minimum</b>	70 -dBc
<b>Distortion Performance (DTO), minimum</b>	55 -dBc
<b>Distortion Performance (DSO), minimum</b>	55 -dBc
<b>Hum Modulation, minimum</b>	-75.00 dB
<b>Group Delay, reverse, maximum</b>	20 ns
<b>Group Delay, channel 2–4, maximum</b>	20 ns
<b>Group Delay, channel 5–6, maximum</b>	5 ns
<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

## General Specifications

<b>Device Type</b>	Two-way subscriber amplifier
<b>Video Ports, quantity</b>	1
<b>Application</b>	Indoor   Outdoor
<b>Includes</b>	Power adapter
<b>Video Standard</b>	NTSC

## Packed Dimensions

<b>Carton Quantity</b>	20
<b>Height</b>	190.50 mm   7.50 in
<b>Length</b>	469.90 mm   18.50 in
<b>Width</b>	228.60 mm   9.00 in
<b>Shipping Weight</b>	8.16 kg   18.00 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
RoHS 2011/65/EU	Designed, manufactured and/or distributed under this quality management system
ISO 9001:2015	



## \* Footnotes

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<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 (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, 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