

SVA10RPFS



HomeConnect® Mini Subscriber Amplifier, 10 dB reverse, one port

OBSOLETE

Product Classification

Product Type	RF amplifier
Product Brand	HomeConnect®

General Specifications

Device Type	Reverse subscriber amplifier
Application	Indoor Outdoor
Video Ports, quantity	1
Video Standard	NTSC

Electrical Specifications

Distortion Performance (DSO), minimum	55 -dBc
Distortion Performance (DTO), minimum	55 -dBc
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	300 mA @ 15 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, power port to RF output, minimum

55 dB @ 5–1002 MHz

Electrical Specifications, Rx (Uplink)

Flatness

±1.0 dB

Gain

10 dB

Return Loss, minimum

20 dB

Noise Figure, maximum

7.5 dB

Operating Frequency Band

5 – 42 MHz

Electrical Specifications, Tx (Downlink)

Flatness

±0.5 dB

Operating Frequency Band

53 – 1002 MHz

Insertion Loss

1.5 dB

Return Loss, minimum

20 dB

Environmental Specifications

Operating Temperature

-40 °C to +60 °C (-40 °F to +140 °F)

Safety Standard

SCTE

Packaging and Weights

Height, packed

190.5 mm | 7.5 in

Width, packed

228.6 mm | 9 in

Length, packed

469.9 mm | 18.5 in

Carton Quantity

20

Included

Power adapter

Weight, gross

7.711 kg | 17 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

SVA10RPFS

REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



Included Products

SVAPA15V300	- HomeConnect® Power Adapter for Subscriber Amplifiers, ac/dc, 15 V, 300 mA
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* Footnotes

Distortion Performance (DSO), minimum	DSO—Discrete Second Order; 13 MHz and 19 MHz, 55 dBmV per carrier loading
Distortion Performance (DTO), minimum	DTO—Discrete Third Order; 13 MHz and 19 MHz, 55 dBmV per carrier loading
Group Delay, channel 2–4, maximum	Channel 2 (3.58 MHz Span)
Group Delay, channel 5–6, maximum	Channel 4–6 (3.58 MHz Span)
Noise Figure, maximum	Total amplifier contribution