

SVA15PRSN



HomeConnect® Nano Subscriber Amplifier, 15 dB, one port

OBSOLETE

Product Classification

Product Type	RF amplifier
Product Brand	HomeConnect®

General Specifications

Device Type	Subscriber amplifier
Application	Indoor Outdoor
Patent Number	8081427 (expires 7/31/2029)
Video Ports, quantity	1
Video Standard	NTSC

Electrical Specifications

Distortion Performance (CCN), minimum	70 -dBc
Distortion Performance (CSO), minimum	65 -dBc
Distortion Performance (CTB), minimum	80 -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

SVA15PRSN

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
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
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Electrical Specifications, Rx (Uplink)

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

Electrical Specifications, Tx (Downlink)

Flatness	±1.0 dB
Gain	15 dB
Noise Figure, maximum	3.5 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	SCTE

Packaging and Weights

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

Regulatory Compliance/Certifications

SVA15PRSN

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
Compliant
Compliant



Included Products

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

* Footnotes

Distortion Performance (CCN), minimum	CCN—Composite Carrier to Noise; 77 analog, 110 digital—256 QAM channel loading
Distortion Performance (CSO), minimum	CSO—Composite Second Order; 77 analog, 110 digital—256 QAM channel loading
Distortion Performance (CTB), minimum	CTB—Composite Triple Beat; 77 analog, 110 digital—256 QAM channel loading
Distortion Performance (X-Mod), minimum	X-Mod—Cross Modulation; 77 analog, 110 digital—256 QAM channel 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

SVAPA12V200



HomeConnect® Power Adapter for Subscriber Amplifiers, ac/dc, 12 V, 200 mA

Product Classification

Product Type	RF amplifier power adapter
Product Brand	HomeConnect®

General Specifications

Plug Type	Type A
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Electrical Specifications

Input Current, maximum	50 mA
Input Voltage @ Voltage at Frequency	120 Vac @ 60 Hz
Output Voltage Tolerance, no load	±5%
Output Voltage, no load	20.2 Vdc
Operating Current at Voltage	200 mA @ 12 Vdc

Environmental Specifications

Safety Standard	c-UL-us
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Packaging and Weights

Height, packed	292.1 mm 11.5 in
Width, packed	279.4 mm 11 in
Length, packed	444.5 mm 17.5 in
Carton Quantity	100
Weight, gross	18.144 kg 40 lb

Regulatory Compliance/Certifications

Agency	Classification
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SVAPA12V200

ISO 9001:2015

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

