

SVA15PRSM



HomeConnect® Mini 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
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
Shielding Effectiveness, minimum	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, power port to RF output, minimum

55 dB @ 5–1002 MHz

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

±0.75 dB

Gain

15 dB

Noise Figure, maximum

4 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

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

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CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



Included Products

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