

SVA1510AFRSM



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

OBSOLETE

Product Classification

Product Type	RF amplifier
Product Brand	HomeConnect®

General Specifications

Device Type	Two-way subscriber amplifier
Application	Indoor Outdoor
Video Ports, quantity	1
Video Standard	NTSC

Electrical Specifications

Distortion Performance (CCN), minimum	70 -dBc
Distortion Performance (CSO), minimum	62 -dBc
Distortion Performance (CTB), minimum	75 -dBc
Distortion Performance (DSO), minimum	55 -dBc
Distortion Performance (DTO), minimum	55 -dBc
Distortion Performance (X-Mod), minimum	73 -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

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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
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	±1.0 dB
Gain	10 dB
Return Loss, minimum	18 dB
Noise Figure, maximum	10.5 dB
Operating Frequency Band	5 – 42 MHz

Electrical Specifications, Tx (Downlink)

Flatness	±0.75 dB
Gain	15 dB
Noise Figure, maximum	4.5 dB
Operating Frequency Band	53 – 1002 MHz
Return Loss, minimum	18 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

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Weight, gross

8.165 kg | 18 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
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 (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 (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
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
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