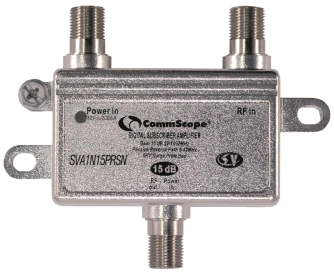
Product Specifications



SVA1N15PRSN

HomeConnect® Nano Subscriber Amplifier, 15 dB, NTSC, one port

Product Classification

Brand	HomeConnect®
Product Type	RF amplifier

Environmental Specifications

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Safety Standard	SCTE

Electrical Specifications Rx (Uplink)

Operating Frequency Band	5 – 42 MHz
Insertion Loss, maximum	1.20 dB
Flatness	±0.5 dB
Return Loss, minimum	20.00 dB

Electrical Specifications Tx (Downlink)

Operating Frequency Band	53 – 1002 MHz
Gain	15.00 dB
Flatness	±0.75 dB
Return Loss, minimum	20.00 dB
Noise Figure, maximum	3.50 dB

Electrical Specifications Isolation

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

Electrical Specifications

Impedance	75 ohm
Operating Current at Voltage	200 mA @ 12 Vdc
Distortion Performance (CTB), minimum	80 -dBc
Distortion Performance (CSO), minimum	65 -dBc
Distortion Performance (X-Mod), minimum	75 -dB
Distortion Performance (CCN), minimum	70 -dBc
Hum Modulation, minimum	-85.00 dB
Group Delay, reverse, maximum	20 ns
Group Delay, channel 2–4, maximum	20 ns

Group Delay, channel 5–6, maximum	5 ns
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

General Specifications

Device Type	International subscriber amplifier
Video Ports, quantity	1
Brand	HomeConnect®
Application	Indoor | Outdoor
Video Standard	NTSC
Patent Number	8081427 (expires 7/31/2029)

Packed Dimensions

Carton Quantity	1
Height	152.40 mm | 6.00 in
Length	381.00 mm | 15.00 in
Width	190.50 mm | 7.50 in
Shipping Weight	4.99 kg | 11.00 lb

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system

* 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