



Broadband Solutions
SVA158PRS
Subscriber Amplifier, 15 dB, eight ports

Environmental Specifications

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

Electrical Specifications Rx (Uplink)

Operating Frequency Band	5 – 42 MHz
Insertion Loss, maximum	11.50 dB
Flatness	±1.0 dB
Return Loss, minimum	20.00 dB

Electrical Specifications Tx (Downlink)

Operating Frequency Band	53 – 1002 MHz
Gain	2.50 dB
Flatness	±1.0 dB
Return Loss, minimum	20.00 dB
Noise Figure, maximum	5.00 dB

Electrical Specifications Isolation

Isolation at Frequency Band, output to output, minimum	25 dB @ 5-1002 MHz
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	75 -dBc (relative to carrier)
Distortion Performance (CSO), minimum	62 -dBc (relative to carrier)
Distortion Performance (X-Mod), minimum	75 -dB
Distortion Performance (CCN), minimum	70 -dBc (relative to carrier)
Hum Modulation, minimum	-75.00 dB
Group Delay, reverse, maximum	30 ns
Group Delay, channel 2–4, maximum	30 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)

Product Specifications



SVA158PRS

Surge Capability Waveform

wave) on all ports | IEEE C62.41-B3 (6 kV, 3000 A, Combination wave) on input port

1.2/50 voltage and 8/20 current combination waveform | 100 KHz ring wave waveform

General Specifications

Device Type	Subscriber amplifier
Video Ports, quantity	8
Brand	HomeConnect®
Application	Indoor Outdoor
Includes	Power adapter
Video Standard	NTSC

Packed Dimensions

Carton Quantity	20
Height	177.80 mm 7.00 in
Length	622.30 mm 24.50 in
Width	279.40 mm 11.00 in
Shipping Weight	13.15 kg 29.00 lb

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system

Included Products

SVAPA12V200 — Power Adapter for Subscriber Amplifiers, ac/dc, 12 V, 200 mA

* Footnotes

Distortion Performance (CCN), minimum	CCN—Composite Carrier to Noise; 77 analog, 124 digital—256 QAM channel loading
Distortion Performance (CSO), minimum	CSO—Composite Second Order; 77 analog, 124 digital—256 QAM channel loading
Distortion Performance (CTB), minimum	CTB—Composite Triple Beat; 77 analog, 124 digital—256 QAM channel loading
Distortion Performance (X-Mod), minimum	X-Mod—Cross Modulation; 77 analog, 124 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