

SVA8P1515VP



HomeConnect® Passive VoIP Amplifier, 15 dB forward, 15 dB reverse, PAL, eight ports

Product Classification

Brand	HomeConnect®
Product Type	RF amplifier

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 – 65 MHz
Insertion Loss, video ports	1.50 dB
Flatness	±1.0 dB
Return Loss, minimum	18.00 dB
Noise Figure, maximum	16.00 dB

Electrical Specifications Tx (Downlink)

Operating Frequency Band	86 – 1002 MHz
Gain, video ports	0.00 dB
Flatness	±1.0 dB
Return Loss, minimum	18.00 dB
Noise Figure, maximum	8.00 dB

Electrical Specifications VoIP

Insertion Loss Rx, VoIP ports, maximum	4.00 dB
Insertion Loss Tx, VoIP ports, maximum	4.50 dB
Return Loss, VoIP ports, minimum	18.00 dB

Electrical Specifications Isolation

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Isolation at Frequency Band, output to output, minimum	23 dB @ 5–65 MHz 23 dB @ 86–1002 MHz
Isolation at Frequency Band, power port to RF output, minimum	60 dB @ 5–1002 MHz

Electrical Specifications

Impedance	75 ohm
Operating Current at Voltage	400 mA @ 15 Vdc
Distortion Performance (CTB), minimum	73 -dBc
Distortion Performance (CSO), minimum	62 -dBc
Distortion Performance (X-Mod), minimum	75 -dB
Distortion Performance (CCN), minimum	70 -dBc
Distortion Performance (DTO), minimum	55 -dBc
Distortion Performance (DSO), minimum	55 -dBc
Hum Modulation, minimum	-75.00 dB
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 VoIP subscriber amplifier
Video Ports, quantity	7
VoIP Passive Ports, quantity	1
Application	Indoor Outdoor
Video Standard	PAL
Patent Number	7912431 (expires 8/2/2025)

Packed Dimensions

Carton Quantity	1
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	



* 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