

CSZAPDU9VP



HomeConnect® Passive VoIP Amplifier, unity forward/reverse, 1.2GHz/nine 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 – 42 MHz
Gain Tolerance, video ports	0.0 dB \pm 1.0
Insertion Loss, video ports	0.00 dB
Flatness	\pm 0.8 dB
Return Loss, minimum	18.00 dB
Noise Figure, maximum	18.00 dB

Electrical Specifications Tx (Downlink)

Gain Tolerance, video	0.0 dB \pm 1.25
Operating Frequency Band	54 – 1218 MHz
Flatness	\pm 0.8 dB
Return Loss, minimum	16.00 dB
Noise Figure, maximum	11.50 dB

Electrical Specifications VoIP

Insertion Loss Rx, VoIP ports, maximum	4.50 dB
Insertion Loss Tx, VoIP ports, maximum	5.50 dB
Return Loss, VoIP ports, minimum	16.00 dB

Electrical Specifications Isolation

Isolation at Frequency Band, output to output, minimum	22 dB @ 1002–1218 MHz 22 dB @ 54–1002 MHz 25 dB @ 5–42 MHz
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Isolation at Frequency Band, output to VoIP, minimum	22 dB @ 1002–1218 MHz 22 dB @ 54–1002 MHz 25 dB @ 5–42 MHz
Isolation at Frequency Band, VoIP to output, minimum	22 dB @ 1002–1218 MHz 22 dB @ 54–1002 MHz 25 dB @ 5–42 MHz

Electrical Specifications

Group Delay, 1st channel, maximum	30 ns
Group Delay, channel 3, maximum	15 ns
Group Delay, channel 4–6, maximum	5 ns
Impedance	75 ohm
Operating Current at Voltage	380 mA @ 12 Vdc
Distortion Performance (CTB), minimum	73 -dBc
Distortion Performance (CSO), minimum	62 -dBc
Distortion Performance (X-Mod), minimum	65 -dB
Distortion Performance (CCN), minimum	55 -dBc
Distortion Performance (DTO), minimum	60 -dBc
Distortion Performance (DSO), minimum	55 -dBc
Hum Modulation, minimum	-75.00 dB
Group Delay, reverse, maximum	20 ns
Shielding Effectiveness, minimum	120 dB
Surge Capability Test Method	ANSI/SCTE 81 IEEE C62.45-2002 (Category B Combination Wave on Input Port, Category A Ring Wave on all other ports)
Surge Capability Waveform	1.2/50 voltage and 8/20 current combination waveform 100 kHz ring wave waveform

General Specifications

Device Type	All ports down amplifier Two-way subscriber amplifier VoIP subscriber amplifier
Video Ports, quantity	8
VoIP Passive Ports, quantity	1
Application	Indoor Outdoor
Includes	Power adapter
Video Standard	NTSC
Patent Number	7912431 (expires 8/2/2025)

Packed Dimensions

Carton Quantity	20
Height	230.12 mm 9.06 in
Length	415.04 mm 16.34 in
Width	290.07 mm 11.42 in

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Shipping Weight

8.28 kg | 18.25 lb

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU

ISO 9001:2015

Classification

Compliant

Designed, manufactured and/or distributed under this quality management system



Included Products

CSAPAE612V500 — Power Adapter for Subscriber Amplifiers, ac/dc, 12 V, 500 mA, EISA VI

* 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, 1st channel, maximum	Channel (3.58 MHz Span)
Group Delay, channel 3, maximum	Channel (3.58 MHz Span)
Group Delay, channel 4–6, maximum	Channel (3.58 MHz Span)
Noise Figure, maximum	Total amplifier contribution