

HomeConnect® Passive VoIP Amplifier, unity forward/reverse, 1.2GHz/nine ports

OBSOLETE

Product Classification

 Product Type
 RF amplifier

 Product Brand
 HomeConnect®

General Specifications

Device TypeAll ports down amplifier | Two-way subscriber

amplifier | VoIP subscriber amplifier

Application Indoor | Outdoor

Patent Number 7912431 (expires 8/2/2025)

Video Ports, quantity 8

Video Standard NTSC

VoIP Passive Ports, quantity

Electrical Specifications

Distortion Performance (CCN), minimum 55 -dBc Distortion Performance (CSO), minimum 62 -dBc Distortion Performance (CTB), minimum 73 -dBc 55 -dBc Distortion Performance (DSO), minimum Distortion Performance (DTO), minimum 60 -dBc 70 -dB Distortion Performance (X-Mod), minimum Group Delay, 1st channel, maximum 30 ns Group Delay, channel 3, maximum 15 ns 5 ns Group Delay, channel 4-6, maximum

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Group Delay, reverse, maximum20 nsHum Modulation, minimum-75 dBImpedance75 ohm

Operating Current at Voltage 380 mA @ 12 Vdc

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

Electrical Specifications, Isolation

dB @ 5-42 MHz

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, Rx (Uplink)

Flatness $\pm 0.5 \, dB$

Gain Tolerance, video ports 0.0 dB ±1.0

 Insertion Loss, video ports
 0 dB

 Return Loss, minimum
 20 dB

 Noise Figure, maximum
 20 dB

Operating Frequency Band 5 – 42 MHz

Electrical Specifications, Tx (Downlink)

Flatness $\pm 0.75 \text{ dB}$

Gain Tolerance, video 0.0 dB ±1.25

Noise Figure, maximum 9 dB

Operating Frequency Band 54 – 1218 MHz

Return Loss, minimum 20 dB

Electrical Specifications, VoIP

Insertion Loss Rx, VoIP ports, maximum 4.5 dB



5.5 dB Insertion Loss Tx, VoIP ports, maximum 20 dB Return Loss, VoIP ports, minimum

Environmental Specifications

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

Safety Standard CE | SCTE

Packaging and Weights

Height, packed 230.124 mm | 9.06 in Width, packed 290.068 mm | 11.42 in Length, packed 415.036 mm | 16.34 in

Carton Quantity 20

Included Power adapter Weight, gross 8.31 kg | 18.32 lb

Regulatory Compliance/Certifications

Classification **Agency**

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system



Included Products

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

* Footnotes

Distortion Performance (CCN), minimum CCN-Composite Carrier to Noise; 77 analog, 110 digital-256 QAM channel loading

CSO-Composite Second Order; 77 analog, 110 digital-256 QAM channel loading Distortion Performance (CSO), minimum

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)

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Group Delay, channel 3, maximum Channel (3.58 MHz Span)

Group Delay, channel 4–6, maximum Channel 2 (3.58 MHz Span)

Noise Figure, maximum Total amplifier contribution

Noise Figure, maximum Total amplifier contribution

