

CSMAPDU9VPI



HomeConnect® Passive VoIP Amplifier with MoCA Connectivity, unity forward/reverse, Standard Split, 1.0 GHz Forward, 42 MHz return, nine ports, with power inserter

OBSOLETE

Product Classification

Product Type	RF amplifier
Product Brand	HomeConnect®

General Specifications

Device Type	All 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	1

Electrical Specifications

Distortion Performance (CCN), minimum	60 -dBc
Distortion Performance (CSO), minimum	65 -dBc
Distortion Performance (CTB), minimum	73 -dBc
Distortion Performance (DSO), minimum	55 -dBc
Distortion Performance (DTO), minimum	60 -dBc
Distortion Performance (X-Mod), minimum	73 -dB
Group Delay, 2nd channel, maximum	30 ns
Group Delay, channel 3, maximum	15 ns
Group Delay, channel 4–6, maximum	5 ns
Group Delay, reverse, maximum	25 ns
Hum Modulation, minimum	-75 dB
Impedance	75 ohm

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Operating Current at Voltage	380 mA @ 15 Vdc
Shielding Effectiveness, minimum	100 dB
Surge Capability Test Method	ANSI/SCTE 81 IEEE C62.41-B3 (6 kV, 3000 A, Combination wave) on all ports
Surge Capability Waveform	1.2/50 voltage and 8/20 current combination waveform 100 kHz ring wave waveform

Electrical Specifications, Isolation

Isolation at Frequency Band, output to output, minimum	25 dB @ 5–1002 MHz
Isolation at Frequency Band, output to VoIP, minimum	25 dB @ 5–1002 MHz
Isolation at Frequency Band, power port to RF output, minimum	60 dB @ 5–1002 MHz
Isolation at Frequency Band, VoIP to output, minimum	25 dB @ 5–1002 MHz

Electrical Specifications, MoCA

Band Rejection, output to input, minimum	40 dB
Band Rejection, VOIP to input, minimum	35 dB
Insertion Loss, output to output, maximum	35 dB
Insertion Loss, output to VOIP, maximum	35 dB
Insertion Loss, VOIP to output, maximum	35 dB
Operating Frequency Band	1125 – 1675 MHz

Electrical Specifications, Rx (Uplink)

Flatness	±1.0 dB
Insertion Loss, video ports	0 dB
Return Loss, minimum	20 dB
Noise Figure, maximum	18 dB
Operating Frequency Band	5 – 42 MHz

Electrical Specifications, Tx (Downlink)

Flatness	±1.0 dB
Gain, video ports	0 dB
Noise Figure, maximum	10.5 dB
Operating Frequency Band	54 – 1002 MHz
Return Loss, minimum	20 dB

Electrical Specifications, VoIP

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Insertion Loss Rx at Frequency Band, VoIP ports, maximum	4.3 dB @ 5–42 MHz
Insertion Loss Tx at Frequency Band, VoIP ports, maximum	4.5 dB @ 54–550 MHz 6.5 dB @ 550–1002 MHz
Return Loss at Frequency Band, VoIP ports, minimum	20 dB @ 5–1002 MHz

Environmental Specifications

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

Packaging and Weights

Height, packed	230.124 mm 9.06 in
Width, packed	385.064 mm 15.16 in
Length, packed	445.008 mm 17.52 in
Carton Quantity	20
Included	Power adapter Power inserter
Weight, gross	12.306 kg 27.13 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



Included Products

CMD/CSAPAE615V500	–	Power Adapter for Subscriber Amplifiers, CMD, ac/dc, 15 V, 500 mA, EISA VI
CSHMPIE	–	HomeConnect® Power Inserter for Subscriber Amplifiers with High Isolation, Copper Nickel Plated Zinc Housing

* Footnotes

Distortion Performance (CCN), minimum	CCN—Composite Carrier to Noise; 77 analog, 110 digital—256 QAM channel loading
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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, 2nd channel, maximum	Channel (3.58 MHz Span)
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