

CSZAPDU9VPI



HomeConnect® Passive VoIP Amplifier, unity forward/reverse, 1.2GHz
/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	55 -dBc
Distortion Performance (CSO), minimum	62 -dBc
Distortion Performance (CTB), minimum	73 -dBc
Distortion Performance (DSO), minimum	55 -dBc
Distortion Performance (DTO), minimum	60 -dBc
Distortion Performance (X-Mod), minimum	70 -dB
Group Delay, 1st channel, maximum	30 ns
Group Delay, channel 3, maximum	15 ns
Group Delay, channel 4–6, maximum	5 ns

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Group Delay, reverse, maximum	20 ns
Hum Modulation, minimum	-75 dB
Impedance	75 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

Isolation at Frequency Band, output to output, minimum	22 dB @ 1002–1218 MHz 22 dB @ 54–1002 MHz 25 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	±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	±0.75 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
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Insertion Loss Tx, VoIP ports, maximum	5.5 dB
Return Loss, VoIP ports, minimum	20 dB

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 Power inserter
Weight, gross	8.278 kg 18.25 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Above maximum concentration value
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted



Included Products

CSAPAE612V500	–	Power Adapter for Subscriber Amplifiers, ac/dc, 12 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
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

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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 2 (3.58 MHz Span)
Noise Figure, maximum	Total amplifier contribution
Noise Figure, maximum	Total amplifier contribution

CSAPAE612V500



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

Product Classification

Product Type	RF amplifier power adapter
Product Brand	HomeConnect®

General Specifications

Plug Type	Type A
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Electrical Specifications

Input Current, maximum	190 mA
Input Voltage, specific	100-240 Vac @ 50-60 Hz
Output Load Regulation Tolerance, maximum	±5%
Output Power, maximum	6.0 W
Output Voltage Ripple, maximum	150 mVpp
Inrush Current, maximum	30 A
Operating Current at Voltage	500 mA @ 12 Vdc

Environmental Specifications

Energy Efficiency Standard	EISA 2016, Level 6
Safety Standard	c-UL-us

Packaging and Weights

Height, packed	360.68 mm 14.2 in
Width, packed	304.8 mm 12 in
Length, packed	594.36 mm 23.4 in
Carton Quantity	100

CSAPAE612V500

Weight, gross

11.34 kg | 25 lb

Regulatory Compliance/Certifications

Agency

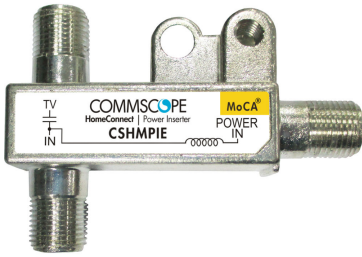
ISO 9001:2015

Classification

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



CSHMPIE



HomeConnect® Power Inserter for Subscriber Amplifiers with High Isolation, Copper Nickel Plated Zinc Housing

Product Classification

Product Type	Power inserter
Product Brand	HomeConnect®

General Specifications

Device Type	Power inserter
Application	Directs power to the amplifiers by combining the power and RF paths directly

Electrical Specifications

Insertion Loss at Frequency Band, maximum	0.5 dB @ 5–1002 MHz 0.8 dB @ 1002–1218 MHz 1 dB @ 1275–1800 MHz
Return Loss at Frequency Band, input, minimum	15 dB @ 1275–1800 MHz 20 dB 5–1218 MHz
Return Loss at Frequency Band, output, minimum	15 dB @ 1275–1800 MHz 20 dB 5-1218 MHz
Operating Current at Voltage	1.5 A @ 25 Vdc
Operating Frequency Band	5 – 1800 MHz
Shielding Effectiveness	105
Surge Capability Test Method	ANSI/SCTE 81 IEEE C62.41-B3 (6 kV, 3000 A, Combination wave) on all ports
Voltage Range	8–25 Vdc

Electrical Specifications, Isolation

Isolation at Frequency Band, power port to input, minimum	65 dB @ 1275-1800 MHz 70 dB @ 800-1218 MHz 75 dB @ 5-800 MHz
Isolation at Frequency Band, power port to TV, minimum	65 dB @ 1275-1800 MHz 70 dB @ 800-1218 MHz 75 dB @ 5-800 MHz

Mechanical Specifications

CSHMPIE

Transportation Vibration Standard

Category A

Environmental Specifications

Operating Temperature

-40 °C to +65 °C (-40 °F to +149 °F)

Operating Humidity

5%–95%

Operating Altitude

–60 meters to 4,000 meters AMSL

Packaging and Weights

Height, packed

219.964 mm | 8.66 in

Width, packed

219.964 mm | 8.66 in

Length, packed

549.91 mm | 21.65 in

Carton Quantity

400

Weight, gross

17.799 kg | 39.24 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

