

CSZAPDU5VPI



HomeConnect® Passive VoIP Amplifier, unity forward/reverse, 1.2GHz
/five 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	4
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

CSZAPDU5VPI

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
-----------------------------------------------	--------

CSZAPDU5VPI

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
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

CSZAPDU5VPI

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