

CSMF1APDU9VPI



Passive VoIP MoCA Amplifier, unity forward/reverse, 85 MHz return, nine ports, with power inserter

Product Classification

Brand	HomeConnect®
Product Type	RF amplifier

Environmental Specifications

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

Electrical Specifications Rx (Uplink)

Operating Frequency Band	5 – 85 MHz
Insertion Loss, video ports	0.00 dB
Flatness	±1.0 dB
Return Loss, minimum	20.00 dB
Noise Figure, maximum	18.00 dB

Electrical Specifications Tx (Downlink)

Operating Frequency Band	102 – 1002 MHz
Gain, video ports	0.00 dB
Flatness	±1.0 dB
Return Loss, minimum	20.00 dB
Noise Figure, maximum	10.50 dB

Electrical Specifications VoIP

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 6.0 dB @ 550-1002 MHz
Return Loss at Frequency Band, VoIP ports, minimum	20 dB @ 5–1002 MHz

Electrical Specifications MoCA

Operating Frequency Band	1125 – 1675 MHz
Band Rejection, output to input, minimum	40.00 dB
Band Rejection, VOIP to input, minimum	35.00 dB
Insertion Loss, output to output, maximum	35.00 dB
Insertion Loss, output to VOIP, maximum	35.00 dB
Insertion Loss, VOIP to output, maximum	35.00 dB

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

Electrical Specifications

Group Delay, 2nd 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 @ 15 Vdc
Distortion Performance (CTB), minimum	73 -dBc
Distortion Performance (CSO), minimum	65 -dBc
Distortion Performance (X-Mod), minimum	73 -dB
Distortion Performance (CCN), minimum	60 -dBc
Distortion Performance (DTO), minimum	60 -dBc
Distortion Performance (DSO), minimum	55 -dBc
Hum Modulation, minimum	-75.00 dB
Group Delay, reverse, maximum	25 ns
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

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 Power inserter
Video Standard	NTSC
Patent Number	7912431 (expires 8/2/2025)

Packed Dimensions

Carton Quantity	20
Height	190.50 mm 7.50 in

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Length	508.00 mm 20.00 in
Width	247.65 mm 9.75 in
Shipping Weight	9.07 kg 20.00 lb

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system



Included Products

- CSHMPI — HomeConnect® Power Inserter for Subscriber Amplifiers with High Isolation
- CSAPAE615V500 — Power Adapter for Subscriber Amplifiers, ac/dc, 15 V, 500 mA, EISA VI
- CSHMPIE — HomeConnect® Power Inserter for Subscriber Amplifiers with High Isolation
- 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, 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