

CSMAPDU9VPI

HomeConnect® Passive VoIP Amplifier with MoCA Connectivity, unity forward/reverse, 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 – 42 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	54 – 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 6.5 dB @ 550–1002 MHz
Return Loss at Frequency Band, VoIP ports, minimum	20 dB @ 5–1002 MHz

Electrical Specifications MoCA

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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

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

Packed Dimensions

Carton Quantity	20
Height	230.12 mm 9.06 in
Length	445.01 mm 17.52 in
Width	385.06 mm 15.16 in
Shipping Weight	12.31 kg 27.13 lb

Regulatory Compliance/Certifications

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



Included Products

- CSHMPI — HomeConnect® Power Inserter for Subscriber Amplifiers with High Isolation
- CSHMPIE — HomeConnect® Power Inserter for Subscriber Amplifiers with High Isolation

* 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



HomeConnect® Power Inserter for Subscriber Amplifiers with High Isolation

Product Classification

Brand	HomeConnect®
Product Type	Power inserter

Electrical Specifications Isolation

Isolation at Frequency Band, power port to input, minimum	70 dB @ 5–1002 MHz 60 dB @ 1125–1675 MHz
Isolation at Frequency Band, power port to TV, minimum	70 dB @ 5–1002 MHz 60 dB @ 1125–1675 MHz

Electrical Specifications

Operating Frequency Band	5 – 1675 MHz
Insertion Loss at Frequency Band, maximum	0.5 dB @ 5–1002 MHz 2.5 dB @ 1125–1675 MHz
Return Loss at Frequency Band, input, minimum	20 dB @ 5–1002 MHz
Return Loss at Frequency Band, output, minimum	20 dB @ 5–1002 MHz
Voltage Range	8–18 Vdc

General Specifications

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

Packed Dimensions

Carton Quantity	500
Height	228.60 mm 9.00 in
Length	533.40 mm 21.00 in
Width	228.60 mm 9.00 in
Shipping Weight	16.33 kg 36.00 lb

Regulatory Compliance/Certifications

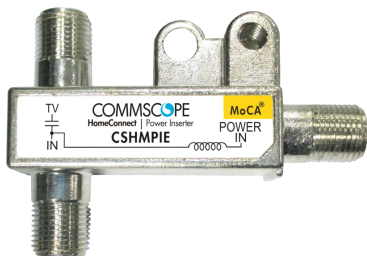
Agency	Classification
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RoHS 2011/65/EU
ISO 9001:2015

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



CSHMPIE



HomeConnect® Power Inserter for Subscriber Amplifiers with High Isolation

Product Classification

Brand	HomeConnect®
Product Type	Power inserter

Electrical Specifications Isolation

Isolation at Frequency Band, power port to input, minimum	70 dB @ 800-1218 MHz 75 dB @ 5-800 MHz 65 dB @ 1275-1675 MHz
Isolation at Frequency Band, power port to TV, minimum	70 dB @ 800-1218 MHz 75 dB @ 5-800 MHz 65 dB @ 1275-1675 MHz

Electrical Specifications

Operating Frequency Band	5 – 1675 MHz
Insertion Loss at Frequency Band, maximum	0.5 dB @ 5–1002 MHz 0.8 dB @ 1002–1218 MHz 1 dB @ 1275–1675 MHz
Return Loss at Frequency Band, input, minimum	15 dB @ 1275–1675 MHz 20 dB 5-1218 MHz
Return Loss at Frequency Band, output, minimum	20 dB 5-1218 MHz 15 dB @ 1275-1675 MHz
Voltage Range	8–18 Vdc

General Specifications

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