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

5 ns



Group Delay, channel 4-6, maximum

**OBSOLETE** 

#### Product Classification **RF** amplifier **Product Type** 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) 4 Video Ports, quantity 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 60 -dBc **Distortion Performance (DTO), minimum** 73 -dB Distortion Performance (X-Mod), minimum Group Delay, 2nd channel, maximum 30 ns Group Delay, channel 3, maximum 15 ns

Page 1 of 8



Group Delay, reverse, maximum	25 ns
Hum Modulation, minimum	-75 dB
Impedance	75 ohm
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 – 85 MHz
Electrical Specifications, Tx (Downlink)	
Flatness	±1.0 dB
Gain, video ports	0 dB
Noise Figure, maximum	10.5 dB

Page 2 of 8



Operating Frequency Band	102 – 1002 MHz	
Return Loss, minimum	20 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	
Environmental Specifications		
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Safety Standard	SCTE	
Packaging and Weights		
Height, packed	190.5 mm   7.5 in	
Width, packed	247.65 mm   9.75 in	
Length, packed	508 mm   20 in	
Carton Quantity	20	
Included	Power adapter   Power inserter	
Weight, gross	9.072 kg   20 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
9001.2015	

### Included Products

CMD/CSAPAE615V500 CSHMPIE

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

### \* Footnotes

Page 3 of 8



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
Noise Figure, maximum	Total amplifier contribution

Page 4 of 8



# CMD/CSAPAE615V500



### Power Adapter for Subscriber Amplifiers, CMD, ac/dc, 15 V, 500 mA, EISA VI

RF amplifier power adapter

HomeConnect®

#### Product Classification

Product Type Product Brand

Plug Type

### General Specifications

Type A

### **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	7.5 W
Output Voltage Ripple, maximum	150 mVpp
Inrush Current, maximum	30 A
Operating Current at Voltage	500 mA @ 15 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

Page 5 of 8



### CMD/CSAPAE615V500

Weight, gross

11.34 kg | 25 lb

Page 6 of 8



# 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 and RF paths direct
Electrical Specifications	
Insertion Loss at Frequency Band, maximum	0.5 dB @ 5−1002 M MHz   1 dB @ 12
Return Loss at Frequency Band, input, minimum	15 dB @ 1275-180
Return Loss at Frequency Band, output, minimum	15 dB @ 1275-180
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   Combination wave)
Voltage Range	8-25 Vdc
Electrical Specifications, Isolation	
Isolation at Frequency Band, power port to input, minimum	65 dB @ 1275-1800 MHz   75 dB @ 5
Isolation at Frequency Band, power port to TV, minimum	65 dB @ 1275-1800 MHz   75 dB @ 5
Mechanical Specifications	

Directs power to the amplifiers by combining the power and RF paths directly

0.5 dB @ 5-1002 MHz | 0.8 dB @ 1002-1218 MHz | 1 dB @ 1275-1800 MHz 15 dB @ 1275-1800 MHz | 20 dB 5-1218 MHz 15 dB @ 1275-1800 MHz | 20 dB 5-1218 MHz 1.5 A @ 25 Vdc 5 - 1800 MHz 105 ANSI/SCTE 81 | IEEE C62.41-B3 (6 kV, 3000 A, Combination wave) on all ports 8-25 Vdc

65 dB @ 1275-1800 MHz | 70 dB @ 800-1218 MHz | 75 dB @ 5-800 MHz

65 dB @ 1275-1800 MHz | 70 dB @ 800-1218 MHz | 75 dB @ 5-800 MHz

Page 7 of 8



## CSHMPIE

**Transportation Vibration Standard** 

#### Category A

400

17.799 kg | 39.24 lb

### Environmental Specifications

Operating Temperature-40 °C to +65 °C (-40 °F to +149 °F)Operating Humidity5%-95%Operating Altitude-60 meters to 4,000 meters AMSLPackaging and Weights219.964 mm | 8.66 inWidth, packed219.964 mm | 8.66 inLength, packed549.91 mm | 21.65 in

### Weight, gross Regulatory Compliance/Certifications

AgencyClassificationCHINA-ROHSBelow maximum concentration valueISO 9001:2015Designed, manufactured and/or distributed under this quality management systemREACH-SVHCCompliant as per SVHC revision on www.commscope.com/ProductComplianceROHSCompliant



**Carton Quantity** 

Page 8 of 8

