HomeConnect® Mini Subscriber Amplifier, 15 dB, one port

Product Classification

**Product Type**  
RF amplifier

**Product Brand**  
HomeConnect®

General Specifications

**Device Type**  
Subscriber amplifier

**Application**  
Indoor | Outdoor

**Video Ports, quantity**  
1

**Video Standard**  
NTSC

Electrical Specifications

**Distortion Performance (CCN), minimum**  
70 -dBc

**Distortion Performance (CSO), minimum**  
65 -dBc

**Distortion Performance (CTB), minimum**  
80 -dBc

**Distortion Performance (X-Mod), minimum**  
75 -dB

**Group Delay, channel 2–4, maximum**  
20 ns

**Group Delay, channel 5–6, maximum**  
5 ns

**Group Delay, reverse, maximum**  
20 ns

**Hum Modulation, minimum**  
-75 dB

**Impedance**  
75 ohm

**Operating Current at Voltage**  
200 mA @ 12 Vdc

**Shielding Effectiveness, minimum**  
100 dB

**Surge Capability Test Method**  
ANSI/SCTE 81 | IEEE C62.41-A3 (6 kV, 200 A, Ring wave) on all ports | IEEE C62.41-B3 (6 kV, 3000 A, Combination wave) on input port

**Surge Capability Waveform**  
1.2/50 voltage and 8/20 current combination
Electrical Specifications, Isolation

Isolation at Frequency Band, power port to RF output, minimum

55 dB @ 5–1002 MHz

Electrical Specifications, Rx (Uplink)

Flatness
±0.5 dB

Insertion Loss, maximum
1.2 dB

Return Loss, minimum
20 dB

Operating Frequency Band
5 – 42 MHz

Electrical Specifications, Tx (Downlink)

Flatness
±0.75 dB

Gain
15 dB

Noise Figure, maximum
4 dB

Operating Frequency Band
53 – 1002 MHz

Return Loss, 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
190.5 mm | 7.5 in

Width, packed
228.6 mm | 9 in

Length, packed
469.9 mm | 18.5 in

Carton Quantity
20

Included
Power adapter

Weight, gross
7.711 kg | 17 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**

*Footnotes*

<table>
<thead>
<tr>
<th>Metric</th>
<th>Description</th>
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<tr>
<td>Distortion Performance (CCN), minimum</td>
<td>CCN—Composite Carrier to Noise; 77 analog, 110 digital—256 QAM channel loading</td>
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<tr>
<td>Distortion Performance (CSO), minimum</td>
<td>CSO—Composite Second Order; 77 analog, 110 digital—256 QAM channel loading</td>
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<tr>
<td>Distortion Performance (CTB), minimum</td>
<td>CTB—Composite Triple Beat; 77 analog, 110 digital—256 QAM channel loading</td>
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<tr>
<td>Distortion Performance (X-Mod), minimum</td>
<td>X-Mod—Cross Modulation; 77 analog, 110 digital—256 QAM channel loading</td>
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<tr>
<td>Group Delay, channel 2–4, maximum</td>
<td>Channel 2 (3.58 MHz Span)</td>
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<tr>
<td>Group Delay, channel 5–6, maximum</td>
<td>Channel 4–6 (3.58 MHz Span)</td>
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<tr>
<td>Noise Figure, maximum</td>
<td>Total amplifier contribution</td>
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