HomeConnect® Two-way Mini Subscriber Amplifier, 15 dB forward, 10 dB reverse, one port

Product Classification

Product Type: RF amplifier
Product Brand: HomeConnect®

General Specifications

Device Type: Two-way subscriber amplifier
Application: Indoor | Outdoor
Video Ports, quantity: 1
Video Standard: NTSC

Electrical Specifications

Distortion Performance (CCN), minimum: 70 -dBc
Distortion Performance (CSO), minimum: 62 -dBc
Distortion Performance (CTB), minimum: 75 -dBc
Distortion Performance (DSO), minimum: 55 -dBc
Distortion Performance (DTO), minimum: 55 -dBc
Distortion Performance (X-Mod), minimum: 73 -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: 300 mA @ 15 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
Surge Capability Waveform

- Ring wave) on all ports
- IEEE C62.41-B3 (6 kV, 3000 A, Combination wave) on input port
- 1.2/50 voltage and 8/20 current combination waveform
- 100 kHz ring wave waveform

**Electrical Specifications, Isolation**

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

- 55 dB @ 5–1002 MHz

**Electrical Specifications, Rx (Uplink)**

- **Flatness**
  - ±1.0 dB
- **Gain**
  - 10 dB
- **Return Loss, minimum**
  - 18 dB
- **Noise Figure, maximum**
  - 10.5 dB
- **Operating Frequency Band**
  - 5 – 42 MHz

**Electrical Specifications, Tx (Downlink)**

- **Flatness**
  - ±0.75 dB
- **Gain**
  - 15 dB
- **Noise Figure, maximum**
  - 4.5 dB
- **Operating Frequency Band**
  - 53 – 1002 MHz
- **Return Loss, minimum**
  - 18 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**
  - 8.165 kg | 18 lb

**Regulatory Compliance/Certifications**
Agency | Classification
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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

**Distortion Performance (CCN), minimum**
CCN—w Composite Carrier to Noise; 77 analog, 110 digital—256 QAM channel loading

**Distortion Performance (CSO), minimum**
CSO—w Composite Second Order; 77 analog, 110 digital—256 QAM channel loading

**Distortion Performance (CTB), minimum**
CTB—w Composite Triple Beat; 77 analog, 110 digital—256 QAM channel loading

**Distortion Performance (DSO), minimum**
DSO—w Discrete Second Order; 13 MHz and 19 MHz, 55 dBmV per carrier loading

**Distortion Performance (DTO), minimum**
DTO—w Discrete Third Order; 13 MHz and 19 MHz, 55 dBmV per carrier loading

**Distortion Performance (X-Mod), minimum**
X-Mod—i Cross Modulation; 77 analog, 110 digital—256 QAM channel loading

**Group Delay, channel 2–4, maximum**
Channel 2 (3.58 MHz Span)

**Group Delay, channel 5–6, maximum**
Channel 4–6 (3.58 MHz Span)

**Noise Figure, maximum**
Total amplifier contribution