

HomeConnect® Mini Subscriber Amplifier, 10 dB reverse, one port



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 |
| Gain | 10.00 dB |
| Flatness | ±1.0 dB |
| Return Loss, minimum | 20.00 dB |
| Noise Figure, maximum | 7.50 dB |

Electrical Specifications Tx (Downlink)

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|---------------------------------|---------------|
| Operating Frequency Band | 53 – 1002 MHz |
| Insertion Loss | 1.50 dB |
| Flatness | ±0.5 dB |
| Return Loss, minimum | 20.00 dB |

Electrical Specifications Isolation

Isolation at Frequency Band, power port to RF output, minimum 55 dB @ 5–1002 MHz

Electrical Specifications

| | |
|--|-----------------|
| Impedance | 75 ohm |
| Operating Current at Voltage | 300 mA @ 15 Vdc |
| Distortion Performance (DTO), minimum | 55 -dBc |

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|--|---|
| Distortion Performance (DSO), minimum | 55 -dBc |
| Hum Modulation, minimum | -75.00 dB |
| Group Delay, reverse, maximum | 20 ns |
| Group Delay, channel 2–4, maximum | 20 ns |
| Group Delay, channel 5–6, maximum | 5 ns |
| 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 waveform 100 KHz ring wave waveform |

General Specifications

| | |
|------------------------------|------------------------------|
| Device Type | Reverse subscriber amplifier |
| Video Ports, quantity | 1 |
| Application | Indoor Outdoor |
| Includes | Power adapter |
| Video Standard | NTSC |

Packed Dimensions

| | |
|------------------------|----------------------|
| Carton Quantity | 20 |
| Height | 190.50 mm 7.50 in |
| Length | 469.90 mm 18.50 in |
| Width | 228.60 mm 9.00 in |
| Shipping Weight | 7.71 kg 17.00 lb |

Regulatory Compliance/Certifications

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



* Footnotes

| | |
|--|---|
| 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 |
| 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