



SVA4P15PRI

Subscriber Amplifier, 15 dB, PAL, four ports, with power inserter

Environmental Specifications

| | |
|-----------------------|--------------------------------------|
| Operating Temperature | -40 °C to +60 °C (-40 °F to +140 °F) |
| Safety Standard | CE SCTE |

Electrical Specifications Rx (Uplink)

| | |
|--------------------------|------------|
| Operating Frequency Band | 5 – 65 MHz |
| Insertion Loss, maximum | 8.00 dB |
| Flatness | ±0.5 dB |
| Return Loss, minimum | 20.00 dB |

Electrical Specifications Tx (Downlink)

| | |
|--------------------------|---------------|
| Operating Frequency Band | 86 – 1002 MHz |
| Gain | 7.50 dB |
| Flatness | ±1.0 dB |
| Return Loss, minimum | 20.00 dB |
| Noise Figure, maximum | 4.50 dB |

Electrical Specifications Isolation

| | |
|---|--------------------|
| Isolation at Frequency Band, output to output, minimum | 25 dB @ 5–1002 MHz |
| Isolation at Frequency Band, power port to RF output, minimum | 55 dB @ 5–1002 MHz |

Electrical Specifications

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|---|--|
| Impedance | 75 ohm |
| Operating Current at Voltage | 200 mA @ 12 Vdc |
| Distortion Performance (CTB), minimum | 75 -dBc (relative to carrier) |
| Distortion Performance (CSO), minimum | 62 -dBc (relative to carrier) |
| Distortion Performance (X-Mod), minimum | 75 -dB |
| Distortion Performance (CCN), minimum | 70 -dBc (relative to carrier) |
| 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 |

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Surge Capability Waveform

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

General Specifications

| | |
|-----------------------|------------------------------------|
| Device Type | International subscriber amplifier |
| Video Ports, quantity | 4 |
| Brand | HomeConnect® |
| Application | Indoor Outdoor |
| Includes | Power inserter |
| Video Standard | PAL |

Packed Dimensions

| | |
|-----------------|----------------------|
| Carton Quantity | 1 |
| Height | 190.50 mm 7.50 in |
| Length | 508.00 mm 20.00 in |
| Width | 247.65 mm 9.75 in |
| Shipping Weight | 9.75 kg 21.50 lb |

Regulatory Compliance/Certifications

| Agency | Classification |
|-----------------|--|
| RoHS 2011/65/EU | |
| ISO 9001:2008 | Designed, manufactured and/or distributed under this quality management system |

Included Products

SVPI — Power Inserter for Subscriber Amplifiers

CSHMPI — Power Inserter for Subscriber Amplifiers with High Isolation

CSMPI — Power Inserter for Subscriber Amplifiers

*** Footnotes**

| | |
|---|--|
| Distortion Performance (CCN), minimum | CCN—Composite Carrier to Noise; 77 analog, 124 digital—256 QAM channel loading |
| Distortion Performance (CSO), minimum | CSO—Composite Second Order; 77 analog, 124 digital—256 QAM channel loading |
| Distortion Performance (CTB), minimum | CTB—Composite Triple Beat; 77 analog, 124 digital—256 QAM channel loading |
| Distortion Performance (X-Mod), minimum | X-Mod—Cross Modulation; 77 analog, 124 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 |