

SVA154PRS



HomeConnect® Subscriber Amplifier, 15 dB, four ports

Product Classification

Brand	HomeConnect®
Product Type	RF amplifier

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 – 42 MHz
Insertion Loss, maximum	8.00 dB
Flatness	±0.5 dB
Return Loss, minimum	20.00 dB

Electrical Specifications Tx (Downlink)

Operating Frequency Band	53 – 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

Impedance	75 ohm
Operating Current at Voltage	200 mA @ 12 Vdc
Distortion Performance (CTB), minimum	75 -dBc

SVA154PRS

Distortion Performance (CSO), minimum	62 -dBc
Distortion Performance (X-Mod), minimum	75 -dB
Distortion Performance (CCN), minimum	70 -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	Subscriber amplifier
Video Ports, quantity	4
Application	Indoor Outdoor
Includes	Power adapter
Video Standard	NTSC

Packed Dimensions

Carton Quantity	20
Height	190.50 mm 7.50 in
Length	508.00 mm 20.00 in
Width	247.65 mm 9.75 in
Shipping Weight	9.07 kg 20.00 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 (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

SVA154PRS

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