



SVA152PRSM Mini Amplifier

With the growing demand for DOCSIS 3.0 high-speed services, HDTV and a requirement to reduce size and costs, cable operators need amplification in a convenient, reliable, Mini-compact housing. CommScope meets this demand with the SVA15PRSM Mini series of amplifiers. This amplifier allows for ease of installation in even the most compact NID boxes and is also available in an all ports down configuration (SVA15PRSMS). This product meets or exceeds all SCTE requirements as well as the harsh demands of an outside plant environment.

Electrical Specifications

Bandwidth 5-42 MHz / 53-1002 MHz

RFI 100 dB Minimum

Gain Forward 15.0 dB
Insertion Loss Reverse 1.2 dB

Powering Requirements
 12 VDC / 200 mA (1 output)

Response Flatness Forward ± 0.5 dB
 Reverse ± 0.5 dB

AC/DC Power Supply
 UL Certified, Surge Protected

Noise Figure (device noise contribution)
 3.5 dB Max @1002 MHz, 1 output

Return Loss Forward 20 dB Min.
 Reverse 21 dB Min.

Isolation
 Power / RF Out 60 dB min (5-1002 MHz)

Distortion Performance
 77 analog, 124 digital -256 QAM ch. loading
C/N 70 dB min.
CSO -65 dB min.
CTB -80 dB min.
X-Mod -75 dB min.

Group Delay
 20 nSec max @ Ch. 2 (3.58 MHz span)
 5 nSec max @ Ch. 6+ (3.58 MHz span)

Hum Modulation -75 dB min.

Features

- Available in 42/53 (NTSC) mid split
- 6 kV protection (IEEE C-62-41-B3 on input, A3 on output)
- Flat-end brass "F" ports with four-sided center conductor contact
- Unique positive tilt compensates for greater attenuation at higher frequencies
- LED Power Indicator
- Mini-compact Aluminum die-cast housing with baked enamel finish that provides protection against corrosion
- Amplifier can be powered through a designated output port with optional power inserter
- Available with 1 Output Configuration (SVA15PRSM) and an All Ports Down Configuration (SVA15PRSMS)
- ISO Certified Production Facility