INFINITY™ ACI SDA8-LE 1.8GHz Datasheet

INFINITY™ ACI SDA8-LE Complete Stations & RF Modules 1.8GHz for ACI®/Augat Line Extender

The ACI Infinity™ SDA8-LE 1.8GHz Line Extenders are designed to be drop in or complete replacements for 750 - 1218MHz ACI SDA Line Extenders. The amplifier can be set up automatically in the field using ACI's advanced ACI+ App (Android/ Apple iOS), or managed and controlled remotely via optional transponder.

Features

- 1.8G drop-in module / complete replacement for 750 - 1218MHz ACI SDA amplifiers
- Supports 1.8GHz Downstream and up to 684 MHz Upstream operation for DOCSIS® 4.0 networks
- Android & Apple iOS setup applications
- Digital microprocessor automatically adjusts gain and levels for optimal system performace through various envornmental conditions
- 1.2G or 1.8G Operational Modes
- Easy field upgaradeable return path
- Automated setup
- Remote monitoring available

Downstream

Frequency Range, MHz	105 - 1794 258 - 1794 492 - 1794 834 - 1794
Flatness, dB	± 0.5 @ F_{Minfwd} to 1218 MHz ± 0.75 @ F_{Minfwd} to 1794 MHz
Operational Gain, dB	46 +1.0 / -0.0
Internal Gain and Slope adjustment	Electronic (Default Condition: 46 dB Gain @ 1794 MHz, 22.0 dB Tilt from 105–1794 MHz) 0.5 dB Step
Noise Figure, dB	11.0 @ F_{maxfwd} (Worst Case)
Test Points, dB	- 20 ± 0.75
Return Loss, dB	16 dB up to 160 MHz; 15 dB 160 MHz – 320 MHz; 14 dB 320 MHz - 1794 MHz
Hum Modulation, dBc	>62 @ F_{minfwd} to 1794 MHz

Upstream

Frequency Range, MHz	10 - 85 10 - 204 10 - 396 10 - 684
Flatness, dB	± 0.75
Operational Gain, dB	28 Min @ 085 Split 28 Min @ 204 Split 30 Min @ 396 Split 32 Min @ 684 Split
Internal Gain and Slope Adjustment	Electronic Control 0.5 dB Step
Noise Figure, dB	10.0 (Worst Case)
Test Points, dB	- 20 ± 0.75
Return Loss, dB	16 dB up to 160 MHz; 15 dB 160 MHz – 320 MHz; 14 dB 320 to 684 MHz
Hum Modulation, dBc	>62 @ 5 to 684 MHz

General

Operating Temperature Range	- 40° to + 60°C (- 40° to + 140°F)
Housing Dimensions, L x W x D	6.75 X 14.25 X 9.00 Inches, 17.1 X 36.2 X 22.9 Centimeters
Weight	14.5 Lbs., 6.58 kg (Complete Unit)

Powering

AC Input Voltage Range, VAC	45 - 90
AC Bypass Current	15 Amps

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