ACI INFINITY™ Moto AMT8-MB 1.8GHz Datasheet

INFINITY™ Moto AMT8-MB Complete Stations & RF Modules 1.8GHz for GI/Motorola® MB Mini-Bridger®

The ACI Infinity™ Moto AMT8-MB 1.8GHz amplifiers are designed to be drop-in replacement modules for the Motorola® Starline® MB 2 or 3 output Mini-Bridger® housings. ACI also offers complete stations with new compatible die cast housings. 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 1GHz and 1.2GHz Motorola® Starline® MB Mini-Bridger®
- 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	50 +1.0/-0.0
Internal Gain and Slope adjustment	Electronic (Default Condition: 50 dB Gain @ 1794 MHz, 22.0 dB Tilt from 105–1794 MHz) 0.5 dB Step
Noise Figure, dB	10.0 @ 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	10.5 (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	14.6 X 9.1 X 6.3 Inches, 37.2 X 23.0 X 16.1 Centimeters
Weight	15.2 Lbs., 6.9 kg (Complete Unit) 3.75 Lbs., 1.7 kg (Module)

Powering

AC Input Voltage Range, VAC	45 - 90
AC Input Current (typical)	1.1 A/52.3 W @ 45 V 0.55 A/49.6 W @ 90 V
AC Bypass Current	15 Amps

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