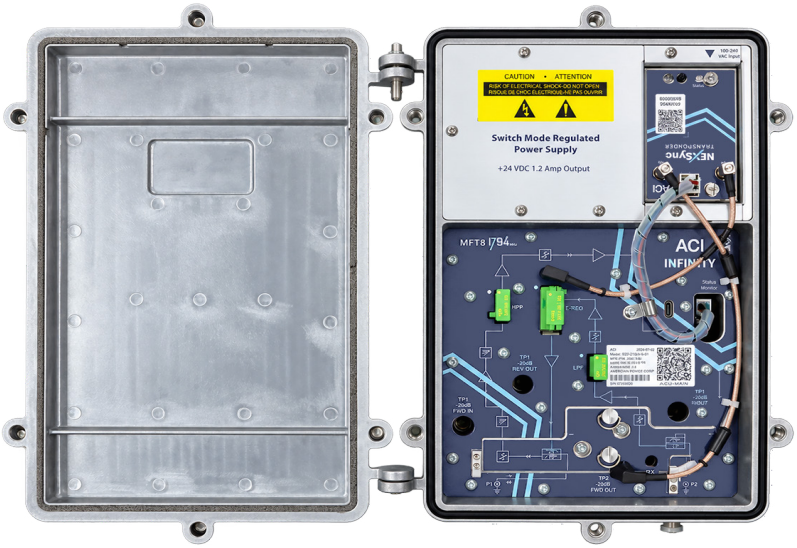
ACI INFINITY™ MFT8 1.8G MDU Amplifier Datasheet



INFINITY™ MFT8 MDU Amplifier 1.8GHz

The Infinity™ MFT8 Amplifier is specifically designed for use in vertical mount applications. It is ideal for apartment complexes or business high-rise situations. The housing is mounted vertically with the input and output ports on the bottom. The UL approved power supply is mounted inside the housing, eliminating the need for an external transformer. The amplifiers are set up in the field using ACI's advanced ACI+ setup application that can be used on either Android or Apple iOS platforms, or managed and controlled remotely via optional transponder.

Features

- Forward slopes and levels are easily configured for 1.2G or 1.8G
- The amplifier is housed in a finned aluminum die-cast housing for superior heat dissipation
- Mounting is accomplished using easily accessible external tabs allowing a variety of placements in vented lock boxes or pedestals
- RoHS Compliant
- RF connections are made through high performance SCTE compliant "F" type cable or 5/8" standard hard-line type cable connectors allowing the flexibility to place the unit on any type of cable.
- Internal UL approved power supply – No need for an external transformer
- Android & Apple iOS setup applications

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	45 +1.0 /-0.0
Internal Gain and Slope adjustment	Electronic (Default Condition: 45 dB Gain @ 1794 MHz, 24.0 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
CNN, dB	≥49@ F_{minfwd} to 1794 MHz

Upstream

Frequency Range, MHz	10 - 85 10 - 204 10 - 396 10 - 684
Flatness, dB	± 0.65
Operational Gain, dB	24 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

General

Operating Temperature Range	- 40° to + 60°C (- 40° to + 140°F)
Housing Dimensions, L x W x D	12.8 x 9.3 x 3.7 Inches, 32.6 x 23.6 x 9.4 Centimeters
Weight	9.5 Lbs., 4.3 kg

Powering

AC Input Voltage Range, VAC	90 - 240
Power Dissipation	33.0 W

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