MA834R Super compact line amplifier

- Outdoor aluminium casting case
- GaAs MMIC output stage
- Internal diplex filter, active return path
- Level and TILT regulated by potentiometer
- Moduled interstage equalizer
- Remote powered switching power supply

Technical specifications

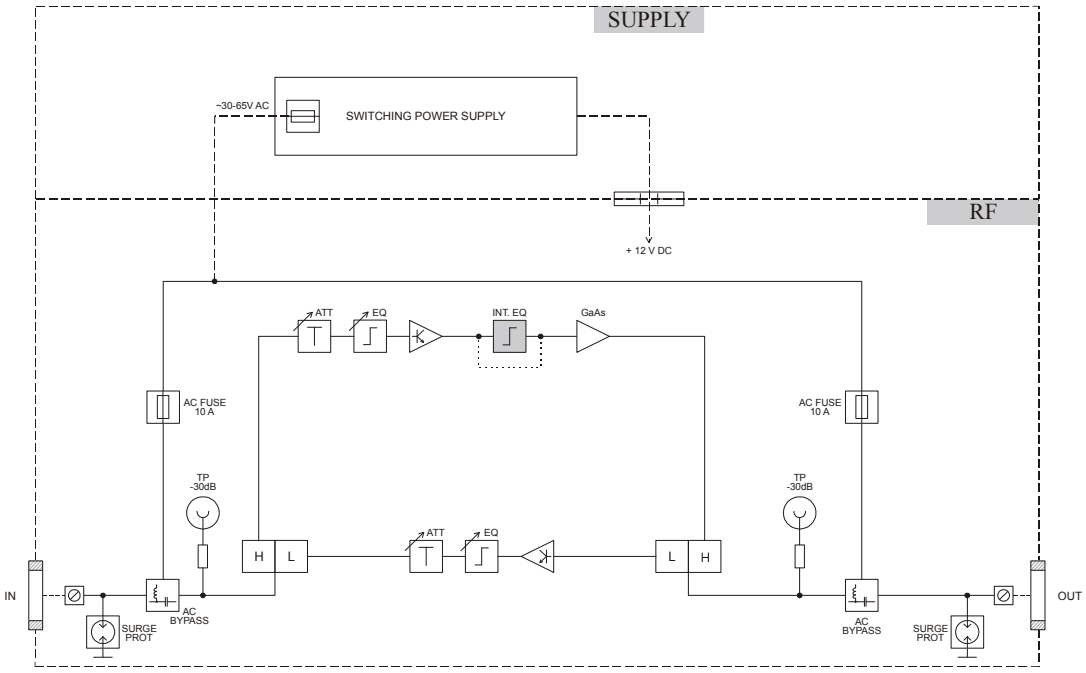
RF parameters

Amplifier type	GaAs PD MMIC
Forward path bandwidth [MHz]	47-862 or 85-862
Return path bandwidth [MHz]	5-30 or 5-65
Diplex filter type [MHz]	Built-In 30/47, 65/85
Forward path gain [dB]	34
Flatness [dB]	±0.75
Maximum output level (EN60728, 42 ch. 8dB TILT; CTB,CSO≤-60dB) [dBµV]	109
CTB (77 ch. 104dBµV flat) [dB]	-69
CXM (77 ch. 104dBµV flat) [dB]	-70
CSO (77 ch. 104dBµV flat) [dB]	-68
Manual level setup [dB]	Continuous 0-20
Manual TILT setup [dB]	Continuous 0-20
TILT frequency [MHz]	606, 862
Noise figure [dB]	5
Testpoints (input, output) [dB]	-30±1
Return loss (40MHz -1.5dB/octave) [dB]	16
Return path gain [dB]	20
Return path maximum output level (IMA III. B-60dB) [dBµV]	118
Return path level setup [dB]	Continuous 0-20
Return path TILT setup [dB]	Continuous 0-20
Breakpoint TILT frequency [MHz]	30, 65
Connecting impedance [Ω]	75
Screening factor [dB]	75

General parameters

Maximum power consumption [W]	8.4 (without), 9.8 (active) return path
Power supply voltage [VAC]	∿ 30...65 ⊓⊔ 35...90
Class of electric shock protection	III.
Maximum current feed-through [A]	10
Hum modulation [dB]	70
Degree of protection	IP 65
Temperature range [°C]	-40...+60
Connector type	5/8”
Dimensions [mm]	152x160x100
Weight [kg]	1.1

BLOCK DIAGRAM



ORDERING INFORMATION

M	A	8	3	4	R	-	X	X

Type of diplex filter	
30	Built-in 30/47MHz diplex filter
65	Built-in 65/85MHz diplex filter