

- High quality and reliability
- Efficient bi-directional transmission
- GaAs FET PP output stage
- Network Management ready
- Plug-in diplex filters

TELECOMMUNICATION AMPLIFIER

BETA U8X-AF8-36Y

Beta is designed for use as a line or distribution amplifier in modern, bi-directional CATV and telecommunication systems. BETA amplifier with monitoring possibility, guarantees very high availability and quality of two-way, interactive services.

Beta is in compliance with: EN 50083-1..3, IEC 1000-4-5, IEC 529.



GENERAL SPECIFICATION

Forward Pass-Band¹⁾ 47..85 + 862 MHz

Max. gain (single output) ≥36 dB

Flatness ±0,5 dB

Output level forward path [dBμV]	CTB ²⁾	CSO ²⁾	DIN (45004 B)
12 dB interstage sloped	112	118	126
0 dB interstage sloped	108	114	126

Noise figure ≤ 7 dB

AC current passing (all ports, HUM <65 dB) 10 A

AC current passing (local AC input) 10 A

AC power consumption (with passive / active return module) 9 / 13 W

Remote powering 20-65 V AC

NMS FEATURES

AC voltage

DC voltage

DC current

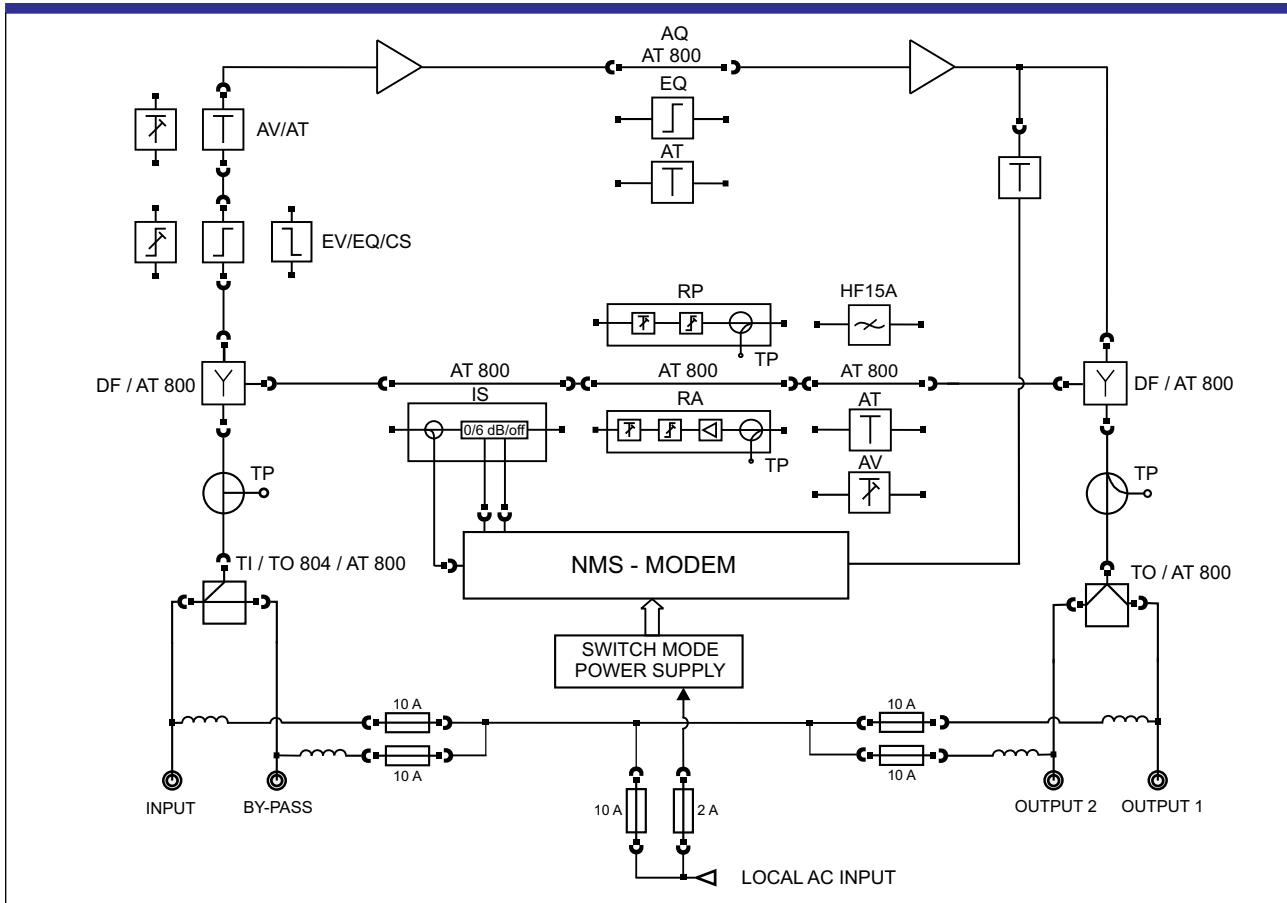
Temperature

External contacts

Reverse path ingress switch (0, 6 dB, open)

¹⁾ plug-in diplex filters.

²⁾ for CTB < -60 dB and CSO < -60 dB, measured with 42 channels CENELEC, typical value in T=25 C.



TECHNICAL SPECIFICATION

ADJUSTMENT

Gain	fixed attenuator AT (0-21 dB, step 1 dB) or variable attenuator AV (0-18 dB)
Slope	fixed equalizer EQ (1-24 dB, step 1 dB) variable equalizer EV (0-18 dB) or fixed cable simulator CS (3, 6 dB)
Interstage	fixed attenuator AT (0-12 dB, step 1 dB) fixed equalizer EQ (3-12 dB, step 1 dB) fixed attenuator and equalizer AQ (10 dB / 6 or 9 dB)

INPUT / OUTPUT

Number of RF ports	4 (1 input, 2 outputs 1 by-pass output)
Connectors input / outputs	PG 11 / PG11
Return loss	≥ 18 dB ($f \leq 40$ MHz) ≥ 18 dB -1,5 dB /oct. ($f > 40$ MHz)
Test-point input, bi-directional	-20 dB ($< \pm 1,5$ dB), F
Test-point output, directional	-20 dB ($< \pm 1,0$ dB), F

REVERSE

Pass-Band	$5 \div 30..65$ MHz
Plug-in reverse modules:	
● RA - reverse path amplifier, gain 20 dB or 25 dB, max. output level 120 dB μ V	
● RP - passive reverse path module	

HOUSING

Degree of protection	IP 66
Dimensions:	
● Width	main body width 215 mm overall width (with hinge and screwholders) 245 mm
● Length	195 mm
● Height	with flat upper cover 95 mm with optional deep upper cover for NMS 125 mm
Temperature range	$-20 \div +55$ °C
Weight	2,4 kg

Specification subject to change without notice.