

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

## TELECOMMUNICATION AMPLIFIER

### BETA U8X-AE8-36Y

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

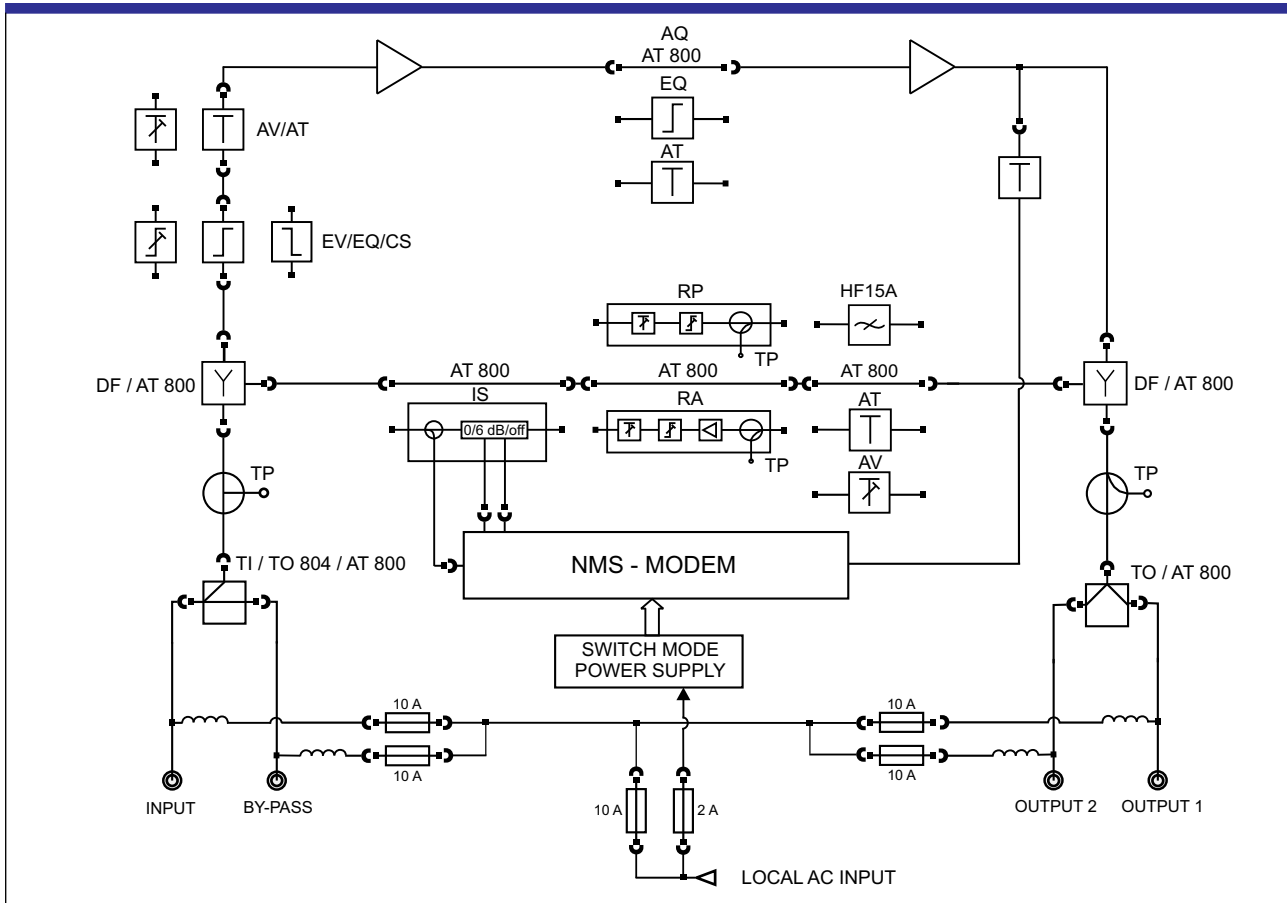
Forward Pass-Band <sup>1)</sup>	47..85 + 862 MHz		
Max. gain (single output)	≥36 dB		
Flatness	±0,5 dB		
Output level forward path [dBμV]	CTB <sup>2)</sup>	CSO <sup>2)</sup>	DIN (45004 B)
9 dB interstage sloped	115	120	129
0 dB interstage sloped	112	118	129
Noise figure	≤ 7 dB		
AC current passing (all ports, HUM <65 dB)	10 A		
AC current passing (local AC input)	10 A		
AC power consumption (with passive / active return module)	12 / 15 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)

<sup>1)</sup> plug-in diplex filters.

<sup>2)</sup> 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
Return loss	$\geq 18$ dB ( $f \leq 40$ MHz) $\geq 18$ 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:	
	<ul style="list-style-type: none"> <li>RA - reverse path amplifier, gain 20 dB or 25 dB, max. output level 120 dB<math>\mu</math>V</li> <li>RP - passive reverse path module</li> </ul>

### HOUSING

Degree of protection	IP 66
Dimensions:	
	<ul style="list-style-type: none"> <li>Width: main body width 215 mm, overall width (with hinge and screwholders) 245 mm</li> <li>Length: 195 mm</li> <li>Height: with flat upper cover 95 mm, with optional deep upper cover for NMS 125 mm</li> </ul>
Temperature range	$-20 \div +55$ °C
Weight	2,4 kg

Specification subject to change without notice.