

CXE202

Teleste

DISTRIBUTION AMPLIFIER / LINE EXTENDER

COMPACT AMPLIFIER WITH ALL MODERN FEATURES

CXE202 is a modern, compact dual output amplifier featuring outstanding versatility and performance in an attractive format.

CXE202 amplifier uses GaAs technology, which provides excellent frequency linearity and improved noise performance. The amplifier has two gain modes in one product. Gain can be selected on the field according to wanted operation. Higher gain is designed for distribution purposes and lower gain is suitable for line extender use.

CXE202 amplifier design has all the functions expected from a traditional broadband amplifier and with added benefits such as versatility on output configuration and efficient surge protection presents a concept that is capable to fill all the network requirements.



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FEATURES AND BENEFITS

Flexible and customizable

Controllable gain - 1 dB step

Plug-in diplex-filters

Plug-in return path unit

Plug-in cable simulator

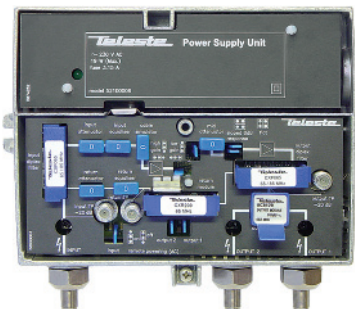
Optional ingress filtering

Options for local and remote powering

6 A current passing capability

Automatic return path termination

Efficient ESD and surge protection



CURRENT CONSUMPTION

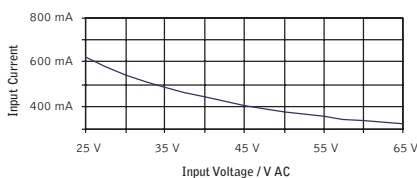


Diagram1 : Current consumption with the active return path, remote powered version.

TECHNICAL SPECIFICATIONS

Forward path

Frequency range	47 / 54 / 70 / 85...862 MHz
Return loss	18 dB
Gain	33.0 dB / 39.0 dB
Input attenuator control range	20 dB
Input equaliser control range	20 dB
Cable Simulator	9 dB
Mid-stage slope	8 / 0 dB
Flatness	± 0.5 dB
Group delay	2 ns
Test point	20 dB
Noise figure (33.0 dB / 39.0 dB mode)	6.4 dB / 5.6 dB
Output level, CTB CENELEC 42 ch	112.0 dBµV
Output level, CSO CENELEC 42 ch	115.0 dBµV
Output level, XMOD CENELEC 42 ch	111.0 dBµV

Return path

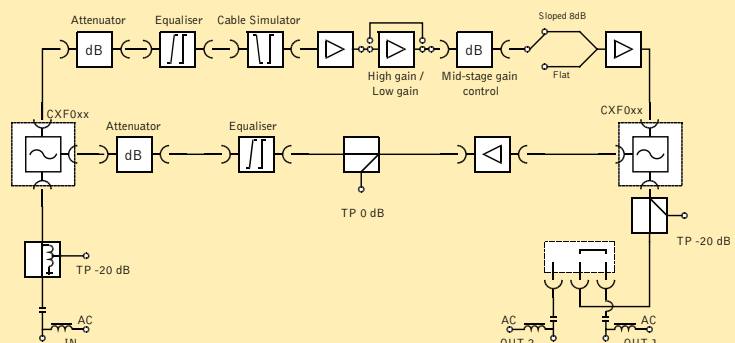
Frequency range	5...30 / 42 / 50 / 65 MHz
Return loss	18 dB
Gain (active / passive)	22.0 dB / -4.0 dB
Gain control range	20 dB
Equaliser control range	7 dB
Flatness	± 1.0 dB
Return test point	0 dB
Noise figure	6.0 dB
Output level, DIN 45004B	113.0 dBµV

General

Power consumption (low / high gain)	13 W *) / 14 W*)
Supply voltage / remote / local	26...65 V AC, ±30...90V DC / 180...255 V AC
Maximum current feed through	6.0 A / port
Hum modulation	70 dB
Input / Output connectors	F-f, IEC-f, PG11, 5/8", 3.5/12
Test point connectors	F-female
Dimensions (h x w x d)	148 mm x 210 mm x 84 mm
Weight	1.6 kg
Operating temperature	-40...+55 °C
Class of enclosure	IP54
EMC	EN50083-2
Additional EMC test for RF ports	ESD 4 kV contact / Surge 6 kV

*) Valid with the active return path (CXR200). With the passive return path (AC6140) the value is 2 W lower.

BLOCK DIAGRAM



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