OPERATING INSTRUCTIONS

XPA-25/XPA-38 BROADBAND AMPLIFIER WITH ACTIVE RETURN PATH

XPA-25 and XPA-38 amplifiers are based on advanced MESFET technology. XPA-25 and XPA-38 are designed to meet requirements of interactive services in two-way networks.

INSTALLATION

XPA-25/XPA-38 must be installed in a dry and locked room.
The amplifier can be installed on the wall by using fixing holes.

The dimensions are show in figure 1.

Sufficient air current must pass around the unit.

Fig 1.

CABLES AND CONNECTIONS

Connect the input and output RF coaxial cables to the **IN** and **OUT** connectors of XPA-25/XPA-38.

XPA-25 and XPA-38 are supplied with external power supply, which is connected to **DC IN** connector.
XPA-38 amplifier can be remote powered through coaxial cable with XPI-1 power inserter. Power is supplied directly to **RF IN** connector.

To ground the unit use the screw situated at the left side of amplifier.

ADJUSTMENTS

To adjust the basic gain and line equalisation connect the spectrum analyser to **TEST -30 dB** connector and use the RF LEVEL and LINE EQUALISER controls.

To adjust the return signal connect the spectrum analyser to **RF IN** connector and use RETURN LEVEL control.

SPECIFICATION

Frequency range	Model XPA-38/30	47 ... 862 MHz
	Model XPA-38/65	88 ... 862 MHz
	Model XPA-25/30	47 ... 862 MHz
	Model XPA-25/65	88 ... 862 MHz
Basic gain	Model XPA-38	38 dB
	Model XPA-25	25 dB
Linearity		± 1dB
Max. input level		98 dBµV
Max. output level		122 dBµV DIN45004B @ 400 MHz
		120 dBµV DIN45004B @ 862 MHz
Noise figure		5
Return loss input/output		14 dB -1,5 dB/octave
Adjustment range for level control		0-20 dB
Adjustment range for line equalizer		0-18 dB
Return path	Model XPA-38/30	5 ... 30 MHz
	Model XPA-38/65	5 ... 65 MHz
	Model XPA-25/30	5 ... 30 MHz
	Model XPA-25/65	5 ... 65 MHz
Return path gain		20 dB adjustable
Power consumption		7 W
RF connections		F-female
Operating temperature range		-10...+55C
Dimensions		121mm W, 102mm H, 34mm D