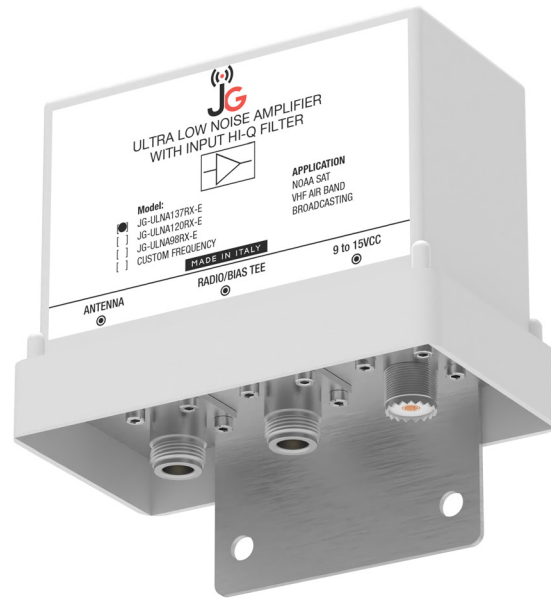


50Ω 137 to 138 MHz

- Latest generation E-pHEMT with active bias to maintain high performance over temperature
- Ultra stability
- ESD antenna protection
- Fuse resettable
- over 30dB OIP3
- 20dB gain
- RX by pass relay
- Bias tee support
- HI-Q pass band output filter
- Internal led status
- 4.75 to 16V input voltage



DESCRIPTION AND FIELD OF USE / DESCRIZIONE E CAMPO DI UTILIZZO:

VHF preamplifier operating from 137 to 138 MHz with low noise figure.

Internal bypass relay to bypass the preamplifier.

It mounts a latest generation E-pHEMT amplification stage that ensures a high OIP3 and thanks to the active bias the noise figure will always be low at any operating temperature.

It is possible to power the preamplifier externally via the SO-239 connector or via the coaxial cable (bias tee).

The power supply voltage can range from 4.75 to 16V with a maximum absorption of 80mA. It can be powered via bias tee from USB SDR radios or receivers with built-in bias tee circuit.

Both power supplies are protected against polarity inversion and a self-resetting fuse.

On the printed circuit you will find a green LED that will indicate the correct operation of the device.

High Q input band pass filter with ESD protection and RF limiting diode.

Preamplificatore VHF operante da 137 a 138 MHz con bassa figura di rumore.

Relè di bypass interno per escludere il preamplificatore.

Monta uno stadio di amplificazione E-pHEMT di ultima generazione che assicura un elevato OIP3 e grazie all'active bias la figura di rumore sarà sempre bassa a qualsiasi temperatura di esercizio.

E' possibile alimentare il preamplificatore esternamente tramite il connettore SO-239 oppure tramite il cavo coassiale (bias tee).

La tensione di alimentazione può spaziare da 4.75 a 16V con un assorbimento massimo di 80mA. Può essere alimentato tramite bias tee da radio SDR USB o ricevitori con circuito bias tee intergrato.

Entrambe le alimentazioni sono protette da inversione di polarità e da un fusibile autoripristinante.

Sul circuito stampato trovate un led verde che vi segnalerà il corretto funzionamento del dispositivo.

Filtro passa banda ad alto Q in ingresso con protezione ESD e diodo limitatore RF.

50Ω

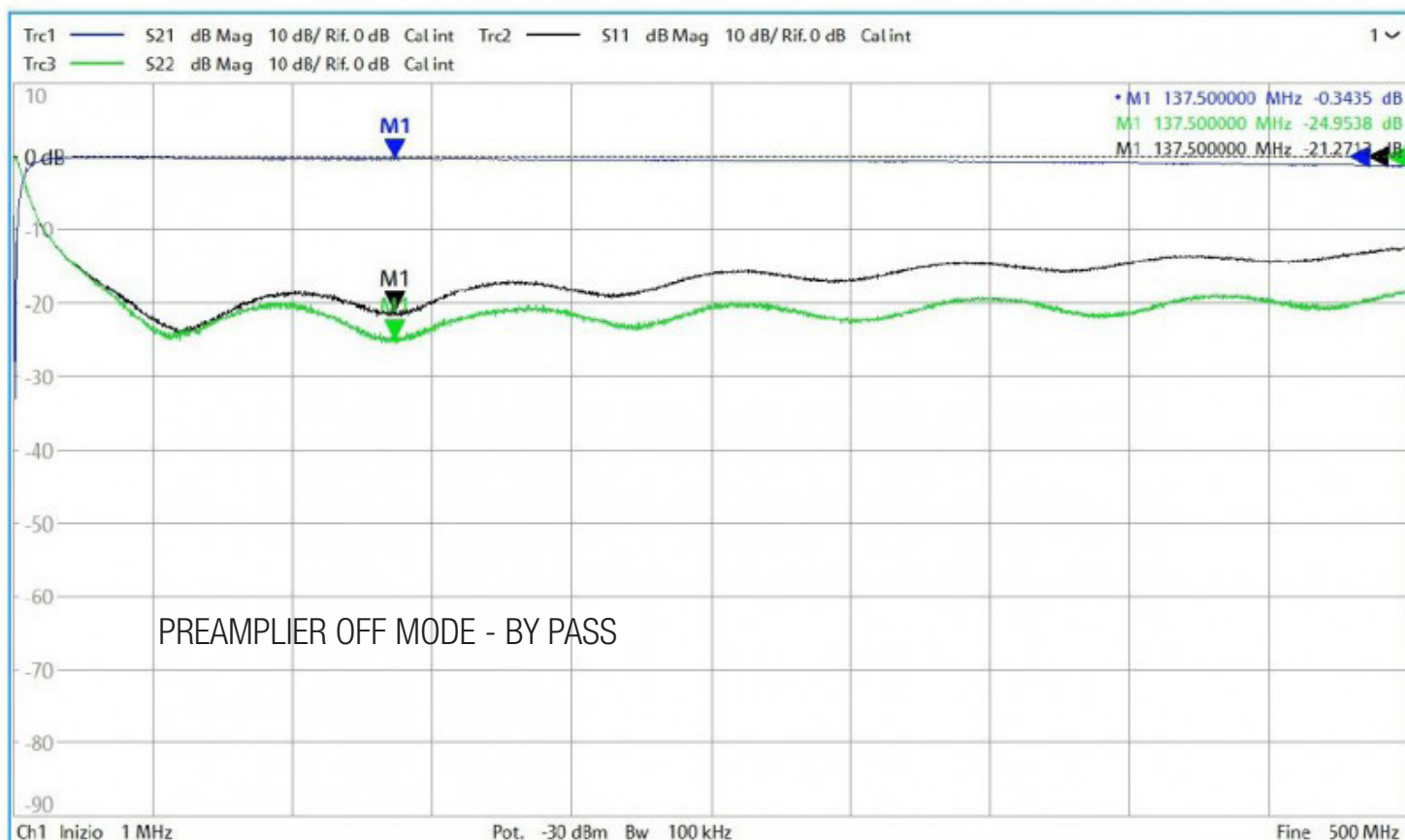
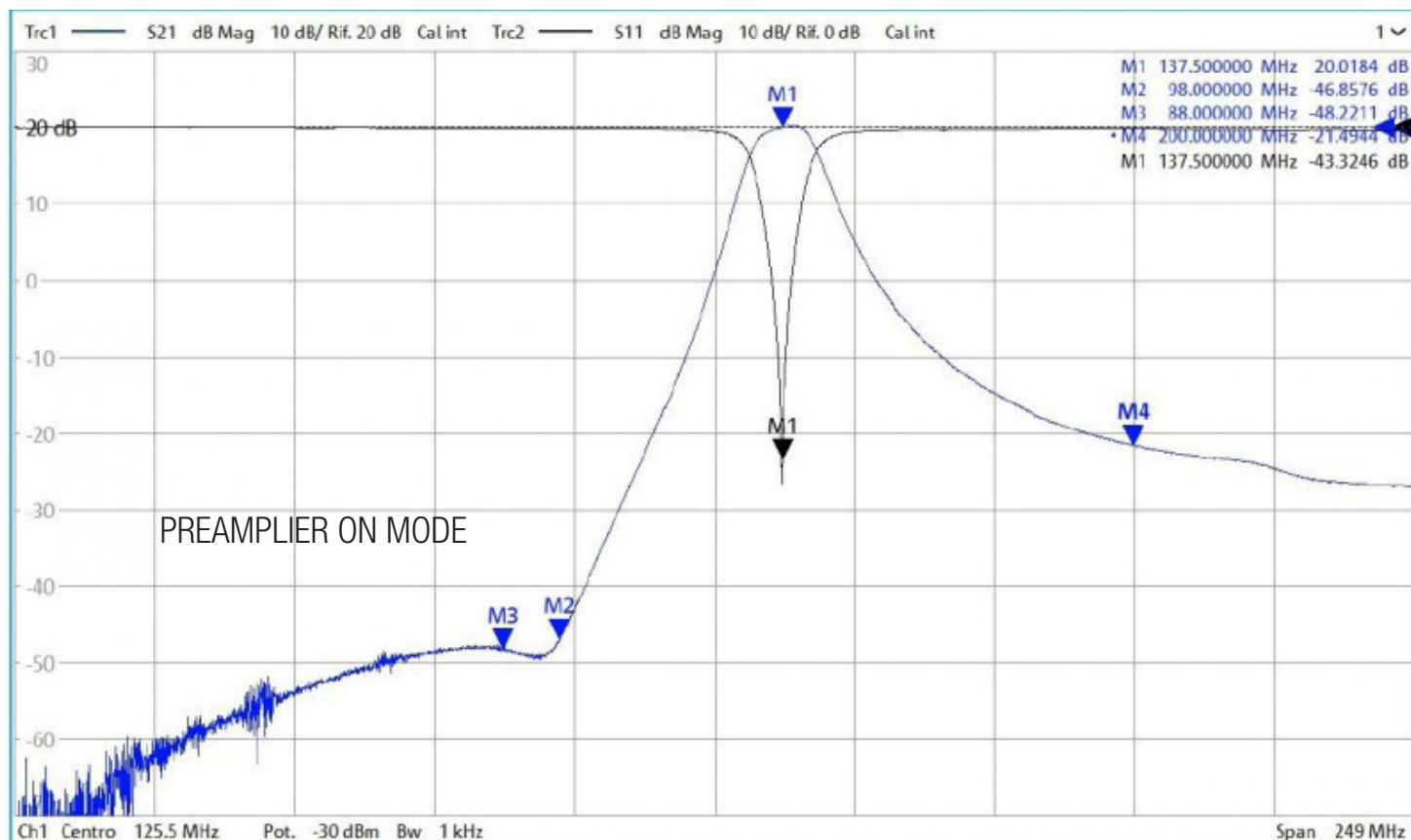
137 to 138 MHz

TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

Frequency range:	from 137 to 138MHz
Impedance:	50Ω
Gain:	≥ 20dB
Noise figure:	≤ 1.5dB
Max input signal:	+20dBm - 100mW
Input return loss S11:	better that 15dB
Output return loss S22:	better that 15dB
OIP3:	better that 30 dB
Supply:	4.75 to 16V - 80 mA
Supply by:	Bias tee or external capacitor
Electronic protection:	Antenna protection from adjacent strong signals
	Inversion polarity
	Fuse resettable
	ESD input antenna protection
Antenna connectors:	N FEMALE
Power connector:	S0239 FEMALE
Pole mount:	YES - up to 60mm diameter pole
Waterproof	YES
Weight:	400 grams
Dimension (L-W-H):	see dimension on page 4
Installation tips:	internal use

50Ω

137 to 138 MHz



External

137 - 138 MHz NOAA PREAMPLIFIER

JG-ULNA137RX

50Ω

137 to 138 MHz

