



Model Number: 2537-B7

RF Engineering
and Custom Build

IF Equaliser Amplifier



Front View of Model 2537-B7

This ETL IF equaliser amplifier is designed to operate over the 70 MHz frequency range and can be used to balance cross-site IF feeds. It provides a nominal 10 dB gain, and also provides positive slope compensation.

The positive slope compensation is adjustable from 0 dB to + 5 dB in 0.5 dB steps via a DIL switch on the rear of the unit. The unit also incorporates a variable attenuator (controlled via another DIL switch on the rear panel) to allow the gain to be maintained as the slope is varied.

The front panel LED provides a visual power status. The unit contains a single power supply and is housed in a 1U 19" shelf.



Rear View of Model 2537-B7

This particular unit has 75 ohm BNC connectors, but other connector types and impedances are available (model numbers will vary). A 140 MHz version of this product is also available.





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Technical specifications and operating parameters

RF Parameters	
Frequency Range	50-90 MHz, 70 MHz centre
Gain	10 ± 1.5 dB, at 70 MHz
Gain Variation over 36 MHz	0.25 dB max, 70 ± 18 MHz
Gain vs. Frequency Slope	0-5 dB, Adjustable in approx. 0.5
Frequency Slope Settings	11 x 0.5 dB
Max slope	+ 5 ± 1.5 dB
Min slope	+ 0 ± 0.2 dB
Mid range	+ 2.5 ± 0.75
Gain Stability	± 0.2 dB over 24 hrs at a given
Gain vs. Temp Variation	0.025 dB / °C typical
Noise Figure	9 dB max at 20°C & 0 dB gain
1 dB Compression	10 dBm
Input Return Loss	20 dB typical
Output Return Loss	20 dB typical

Power	
AC Power	85-264V AC (50/60Hz)
LNB Power	None
PSU	Single
Hot-swap PSU	No

Physical	
Connectors	BNC
Impedance	75Ω
Dimensions	1U high x 250mm deep x 19" wide
Colour	White 00-E-55 semi-gloss (Front)

Environmental	
Operating temperature	0 to 45°C
Location	Indoor use only
Storage temperature	-20°C to +75°C
Humidity	85% non-condensing

System Control	
Local Control	DIL switches on rear panel
Display	Front panel LED for Power status

Key Features	
Variable slope compensation to + 5 dB	
Single PSU	

** While settings other than those recommended are possible, the specified flatness, compression etc are only guaranteed for recommended settings which are detailed in the product manual

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