



Model Number: 2537-B7B7

RF Engineering
and Custom Build

IF Equaliser Amplifier



Front View of Model 2537-B7B7

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-B7B7

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	Slope is Positive & Monotonic Typical slope setting X will be: X ± 0.3X 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 gainng	
1 dB Compression	10 dBm	
Input Return Loss	20 dB typical	
Output Return Loss	20 dB typical	

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

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

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

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

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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