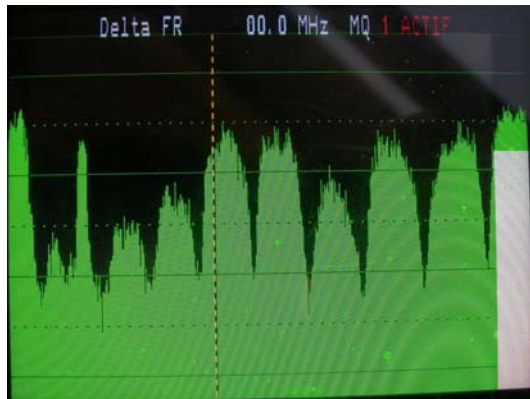


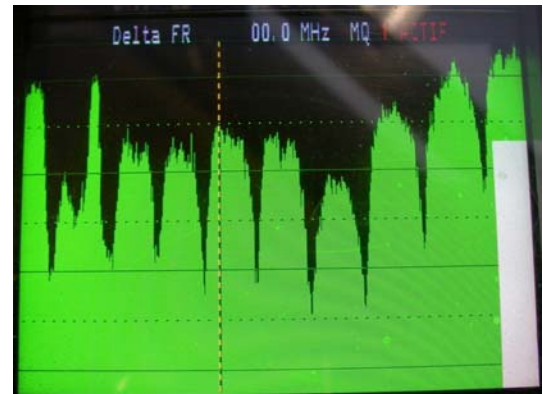


PLANAR 540 specifications
Universal LNB with AGC HyCANc embedded

	Lo Band	Hi Band
1. Input Frequency Range	10.7 ~ 11.7 GHz	11.7 ~ 12.75 GHz
2. Output Frequency Range	950 ~ 1950 MHz	1100 ~ 2150 MHz
3. L.O. Frequency	9.75 GHz	10.6 GHz
4. Noise Figure (Without attenuation)	2.5 dB (Max.)	
5. Planar Space and Angular Diversity	Size 540x540x50 mm Weight 3.6 kG	
6. Cross Pol. Isolation	22 dB (Min.)	25 dB (Typ.)
7. Conversion Gain with HyCANc embedded	61 dB (Min.)	94 dB (Max.)
8. Gain Flatness	± 1 dB / 40 MHz	
9. L.O. Frequency Stability	(+25 °) (- 30 ° +60 °) ± 1 MHz ± 3 MHz	
10. L.O. Phase Noise	(1 KHz Offset) (10 KHz Offset) (100 KHz Offset) - 50 dBc/Hz - 70 dBc/Hz - 95 dBc/Hz	
11. Output Power (at 1 dB Gain Compression Point) (Without attenuation)	-8 dBm (Min.)	
12. Output Return Loss	7.5 dB	
13. Output Connector	75Ω F Type (Female)	
14. D.C. Supply Voltage	11.5 ~ 19.0 V	
15. D.C. Current Consumption	150 mA (Max.)	
16. Polarity Switching Voltage	Vertical : 11.5 ~ 14.0 V Horizontal : 16.0 ~ 19.0 V	
17. Band Switching	Low Band Hi Band	0 KHz 22 KHz ± 4 KHz continuous tone signal
18. AGC Range + HyCANc (Patent Pending)	Dynamic 33 dB plus 2 steps +- 15 dB	
19. Output Power Leveling Setting (Single Carrier)	- 27 dBm ±3 dB	
20. Operating Temperature	- 30° + 60° Celcius	
21. Mast mount diameter	Metal mast of 46 up to 60 mm diameter	
22: Efficiency - H and E angles at -3 dB	86% - +- 1.5°	



500 Mhz of Bandwidth with **full 1 Ghz** Spectrum managed by the embedded HyCAnC 1.2



500 Mhz of Bandwidth with **also 40 Mhz** Spectrum managed by HyCAnC 1.2 from the Set Top Box

Versatile anti fading *HyCAnC* LNB version 1.2

This LNB is a special device designed for automatic fading gain compensation in one Ghz bandwidth and 40 Mhz carrier level management in the KU Band 10.7 to 12.7 for the MDS Hypercable WADSL terrestrial BWA and also satellite reception for CATV Head Ends or private users.

This LNB suppress the fading caused by the rain or any other events in the radio waves propagation, caused by icing, snow, sand storms, ducts, scintillation.....

The patented HyCAnC Automatic Gain Control, AGC & Disecq LNB is working with usual Set Top Boxes satellite receiver and any MDU for multiple users distribution. The function of this system is only the HyCAnC AGC function for the full band in the full one Ghz used.

The standard 13 / 18 V or 22kHz or Disecq command V,H, LO or Hi to select the band is usual.

The HyCAnC AGC is no relation of the Hi/Lo band or V/H polarization selection; the HyCAnC AGC function is working of the input power level only.

When the HyCAnC 1.2 LNB is used with HyCAnC software implemented in a Satellite or a Terrestrial Set Top Box the system have more function levels

If the power of the wanted carrier are unequal and one is extreme low which is selected by the end user. The HyCAnC will automatically send command to disconnect one of the AGC function to enhance 15 dB more gain. If the power in the HyCAnC receiver is still not enough, it will disconnect the other AGC function to enhance 30 dB more gain (the gain is 60 dB right now). The HyCAnC Set Top Box control have the priority for the HyCAnC AGC LNB.