

Low Noise Pre Amplifier

AS 1520



Sharp Vision Low Noise Pre Amplifier AS 1520 is designed for control rooms having more channels to compensate the losses due to more than one combiner in series. In this Pre Amplifier, the loss compensation is achieved with high C/N (CSO and CTB with -61dBc).



Features:

- Low Noise Pre Amplifier
- Control Room Application
- Freq.: 40 ~ 860MHz
- 106 Ch. Loading Capacity
- Gain: 18dB
- Output Level: 100dB μ V
- Accepts high RF input signal level
- Good C/N, CSO, CTB characteristics
- Dual Output with ± 0.2 dB Flatness
- Mains -cum- Power pass
- Plug-in Slope Card

Why Use Low Noise Pre Amplifier AS 1520:

Calculations for combiner losses with 30dB Hybrid Amplifier at headend:

- Step 1: Average output level of modulator = 108dB μ V
- Step 2: Losses due to two combiners in series = 28dB
- Step 3: Net output after combiners = 108 - 28 = 80dB μ V
- Step 4: Gain of Ordinary Hybrid Amplifier = 30dB
- Step 5: Net O/P level after Hybrid Amplifier = 80 + 30 = 110 dB μ V

This Output will result in Intermodulation & poor C/N. Even with the help of Gain Control of the amplifier, it may not be possible to avoid intermodulation.

With the use of Sharp Vision's AS 1520 Amplifier, the above calculations will be as below:

- Step 3: Net output after combiners = 108 - 28 = 80dB μ V
- Step 4: Gain of AS 1520 = 18dB
- Step 5: Net O/P after AS 1520 Amplifier = 80 + 18 = 98dB μ V

This Output will have a high C/N, Low Noise & No Intermodulation. The result is a much better picture quality for the networks with high cascade.

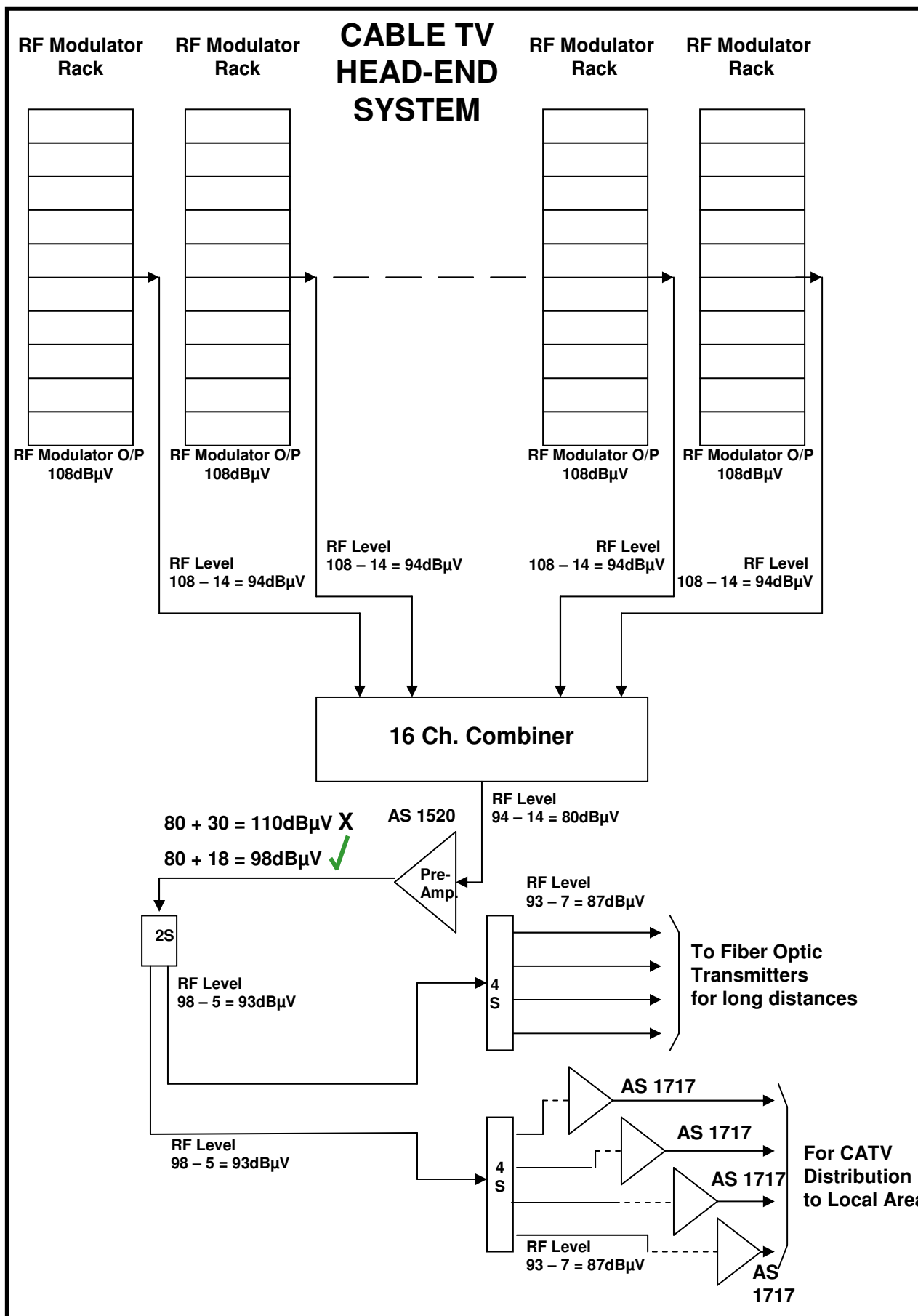


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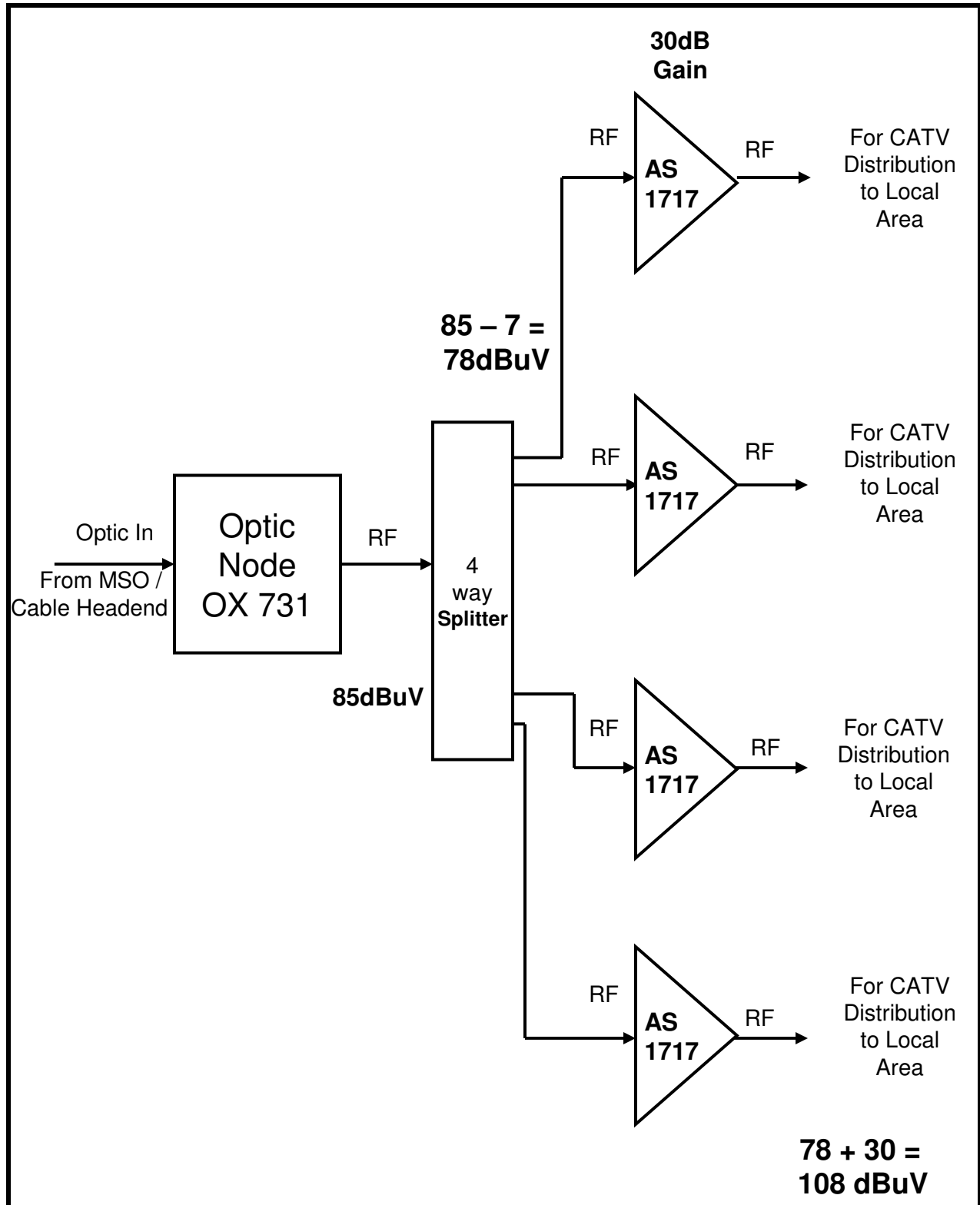
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Installation Guidance for AS 1717 & AS 1520 Amplifiers



Installation guidance for Franchise Cable Operator



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Choose The Right Amplifier For Your Cable System



	AS 1520	AS 1717	AS 1515 / AS 1111
1	Low Noise Pre-Amplifier	Power Doubler Distribution Amplifier	Trunk Line Amplifier
2	Gain : 18dB	Gain: 30dB	Gain: 28dB(with double o/p)
3	Output Level: 100dBuV @ 80Ch	Output Level: 105dBuV @ 80Ch	Output Level: 100dBuV @ 80Ch (single output)
4	Control Room Application To compensate Combiner Losses with high C/N (with low CSO/CTB).	A Necessity to be used as first amplifier in every Trunk Cable before distribution For High Output Level with high C/N (with low CSO/CTB).	To be used as a regular amplifier in the Trunk line
5	Suitable for Trunk Cables where low gain is required	Suitable for Long Trunk Cables with large number of subscribers	Suitable for Trunk Cables and Branch Cables
6	Medium Price	Price is comparatively high	Economical in Price



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