

PDF3/7R65, PDF4/4R65, ADF15/8R65

Distribution filter PDF/ADF is intended for combining and filtering of TV- and return path signals in CATV networks.

PDF/ADF filter rejects all possible interfering signals in the return path (5-65MHz) and in path from modem to TV-receiver.

PDF3/7R65 provides for possibility to divide rationally the signal between TV-receiver and modem.

PDF4/4R65 divides the signal uniformly. Such type solution is more useful in trunk cable connections.

ADF15/8R65 is filtering amplifier. It can be used in cases, when a lot of head-end devices are installed and therefore the high signal level must be provided.



Figure 1: PDF3/7R65.

Technical specifications:

	PDF3/7R65 (note 1)	PDF4/4R65 (note 1)	ADF15/8R65 (note 2)	
Frequency range:				
IN<>FM/TV	85-862	85-862	85-862	MHz
IN<>DATA	5-65, 85-862	5-65, 85-862	5-65, 85-862	MHz
Transmission in pass-band:				
IN<>FM/TV 85-862MHz	-3	-4	+15	dB
IN<>DATA 5-65MHz	-1	-1	-1	dB
IN<>DATA 85-862MHz	-7	-4	+8	dB
Attenuation in stop-band:				
IN<>FM/TV 5-65MHz	>30	>20	-	dB
FM/TV<>DATA 5-65MHz	>30	>18	-	dB
FM/TV<>DATA 85-862MHz	>20	>18	-	dB
Return loss:				
IN 5-65MHz	>25	>20	-	dB
IN 85-862MHz	>12	-	-	dB
DATA 5-65MHz	>25	>20	-	dB
DATA 85-862MHz	>10	-	-	dB
FM/TV 85-862MHz	>12	-	-	dB
Impedance	75	75	75	Ω
Connector type	F-female	F-female	F-female	
Dimensions (with connectors)	84x50x30	84x50x30	84x50x30	mm

Notes:

- 1) Passive filter.
- 2) Active device: filter + amplifier. Power consumption: +16...+20V/60mA.

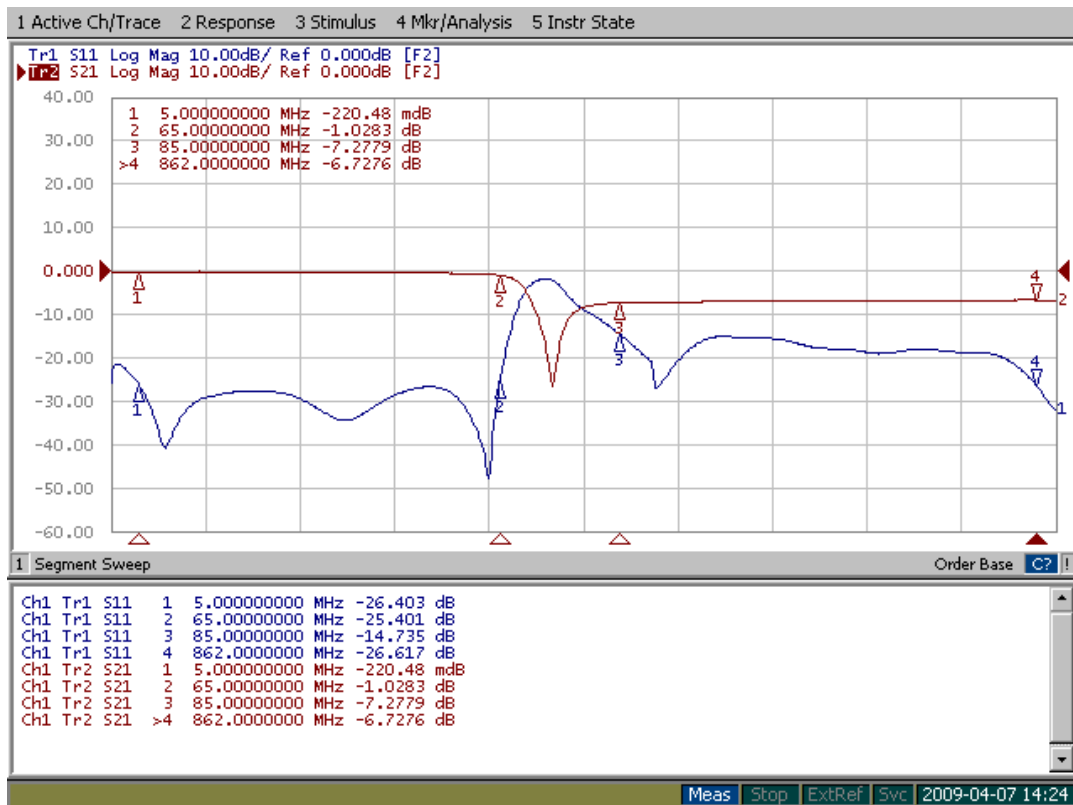


Figure 2: PDF3/7R65 transfer function (red) and return loss (blue) curves, IN<>DATA.

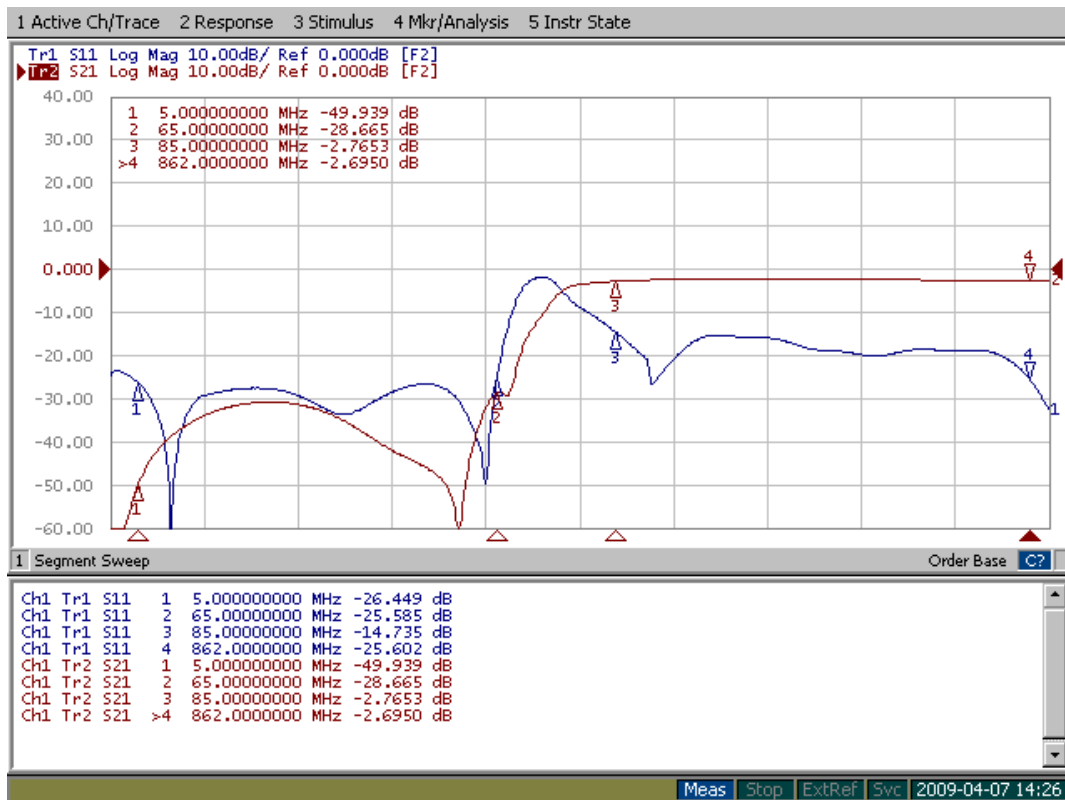


Figure 3: PDF3/7R65 transfer function (red) and return loss (blue) curves, IN<>TV/FM.