



Headend Forward Path Amplifier Modules:

These high quality performance amplifier modules are engineered for typical use in a modern cable television plant., although are useful in other areas such as commercial applications. All amplifier models are compatible with CommDev HA-101, HA-104, HRA-101 and HRA-102 Series chassis, and are provided in a die-cast housing. Units are sold separately.

These amplifier modules exhibit low distortions, good flatness across the operating frequency band and have low input/output signal reflections. Each amplifier has positions for JXP style plug-in Attenuators and Equalizers. Available dB value of Attenuators and Equalizers range in 1dB increments from 1 to 12 dB (supplied separately). Customized values are available. A -30 dB Test Port optionally can be added to the Amplifier. To order this type of amplifier configuration please add the letter "T" at the end of Part Number.

Forward Amplifier Module Specifications:

		Standard					
Type of Amplifier:		AF-20.1002	AF-25.1002	AF-27.1002	AF-30.1002	AF-34.1002	AF-39.1002
Parameters:	Units	Specifications					
Frequency	MHz	45-1002					
Gain (@1002MHz)	dB	20±0.5	25±0.5	27±0.5	30±0.5	34±0.5	39±0.5
Gain Flatness, max	dB	±0.5					
I/O Return Loss, min	dB	20/20					
Noise Figure	dB	6.5 max	5.5 max	5.0 max	4.5 max	5.0 max	5.0 max
Output Signal Level	dBmV	52 max	52 max	52 max	52 max	52 max	52 max
CTB	dBc	-65	-65	-65	-65	-64	-64
CSO	dBc	-67	-67	-67	-65	-64	-64
XMOD	dBc	-62	-62	-62	-62	-61	-61
CIN	dBc	-	-	-	-	-	-
Current Consumption (24V)	mA	440 max	440 max	440 max	440 max	490 max	490 max
Measurement conditions:		79 Analog Channels, 7 dB Tilt					

		Extended Frequency Range				
Type of Amplifier:		AF-22.1218	AF-24.1218	AF-27.1218	AF-32.1218	AF-34.1218
Parameters:	Units	Specifications				
Frequency	MHz	45 - 1218				
Gain (@1218MHz)	dB	22±0.5	24±0.5	27±0.5	32±0.5	34±0.5
Gain Flatness, max	dB	±0.5				
I/O Return Loss, min	dB	18/18				
Noise Figure	dB	4.0 max	4.0 max	4.0 max	5.0 max	5.0 max
Output Signal Level	dBmV	60 max	60 max	55 max	55 max	55 max
CTB	dBc	-80	-80	-82	-80	-80
CSO	dBc	-80	-80	-80	-78	-78
XMOD	dBc	-78	-75	-75	-73	-73
CIN	dBc	-59	-58	-60	-60	-60
Current Consumption (24V)	mA	450 max	450 max	450 max	490 max	490 max
Measurement conditions:		V max at 1200 MHz 16.5 dB Extrapolated Tilt, 79 Analog and 111 Digital Channels -6 dB Offset				

THREE YEAR PARTS AND LABOR WARRANTY INCLUDED