



# ALPHA, BETA, LAMBDA - PLUG-IN MODULES

## DF 65A

Diplex filter module 5 ÷ 65 / 85 ÷ 862 MHz



## DF 42A

Diplex filter module 5 ÷ 42 / 54 ÷ 862 MHz



## DF 30A

Diplex filter module 5 ÷ 30 / 47 ÷ 862 MHz



## EV

Input variable equalizer module

TYPE	FREQUENCY RANGE	EQUALIZATION
EV 818	47 ÷ 862 MHz	0 ÷ 18 dB
EV 618	47 ÷ 606 MHz	0 ÷ 18 dB
EV 418	47 ÷ 450 MHz	0 ÷ 18 dB



## AV

Input variable attenuator module

TYPE	FREQUENCY RANGE	ATTENUATION
AV 818	5 ÷ 862 MHz	0 ÷ 18 dB



## AQ

Interstage fixed attenuator & equalizer module

TYPE	FREQUENCY RANGE	ATTENUATION	EQUALIZATION
AQ 810-06	47 ÷ 862 MHz	10 dB	6 dB
AQ 810-09	47 ÷ 862 MHz	10 dB	9 dB
AQ 806-06	47 ÷ 862 MHz	6 dB	6 dB
AQ 806-09	47 ÷ 862 MHz	6 dB	9 dB



## EQ

Input or interstage fixed equalizer module

TYPE	FREQUENCY RANGE	EQUALIZATION
EQ 8xx	47 ÷ 862 MHz	1 ÷ 24 dB, step 1dB
EQ 6xx	47 ÷ 606 MHz	6, 9, 12 dB
EQ 4xx	47 ÷ 450 MHz	3, 6, 9, 12, 15 dB



## AT

Input or interstage fixed attenuator module

TYPE	FREQUENCY RANGE	ATTENUATION
AT 8xx	5 ÷ 862 MHz	1 ÷ 21 dB, step 1dB



## AT 800

Universal jumper module



## HF 15A

Reverse path ingress filter module

FREQUENCY RANGE	ATTENUATION
≤ 10 MHz	≥ 35 dB
15 MHz	≤ 1 dB
> 15 MHz	≤ 0.5 dB

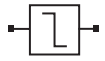


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## CS

Cable simulator module

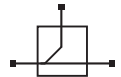
TYPE	FREQUENCY RANGE	ATTENUATION AT UPPER FREQUENCY
CS 80x	47 ÷ 862 MHz	3 or 6 dB
CS 60x	47 ÷ 606 MHz	3 or 6 dB
CS 40x	47 ÷ 450 MHz	3 or 6 dB



## TI

Input tap module

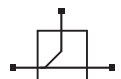
TYPE	ATTENUATION INPUT TO BY-PASS	ATTENUATION INPUT TO AMPLIFIER
TI 808	2.4 dB	8.8 dB
TI 810	2 dB	10.6 dB
TI 813	0.8 dB	12.7 dB
TI 815	0.7 dB	15.2 dB
TI 817	0.6 dB	17.5 dB



## TO

Output tap module

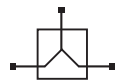
TYPE	ATTENUATION TO OUT1	ATTENUATION TO OUT2
TO 808	2.4 dB	8.8 dB
TO 810	2 dB	10.6 dB
TO 813	0.8 dB	12.7 dB
TO 815	0.7 dB	15.2 dB
TO 817	0.6 dB	17.5 dB



## TO 804

Input/Output splitter module

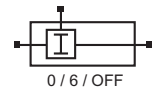
Symmetrical 1 x 2 splitter with insertion loss of 3.7dB



## IS 65

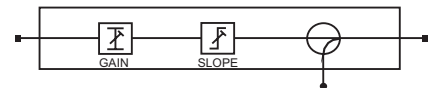
Ingress switch module

Used with Network Management System



## RP 600

Passive reverse module



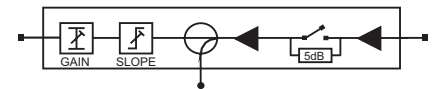
### TECHNICAL PARAMETERS

Bandwidth [MHz]	5 ÷ 65	Slope adjustment range [dB]	0 ÷ 10
Insertion loss [dB]	≤ 3.5	Test point - directional [dB]	-20
Level adjustment range [dB]	0 ÷ -18		

## RA 65

Reverse amplifier module with variable attenuator and equalizer

Gain controlled by 2-state interstage attenuator and indicated by LED



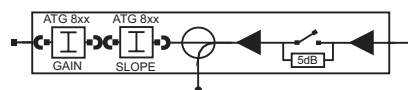
### TECHNICAL PARAMETERS

Bandwidth [MHz]	5 ÷ 65	NPR for 60MHz load @ 26dBμV/Hz [dBc]	≤ -60
Gain [dB]	25/20	Intermodulation distortions [dBc]:	
Noise figure [dB]	≤ 4	• third order beat IMD3 @ 115dBμV	≤ -60
Level adjustment range [dB]	0 ÷ 20	• second order beat IMD2 @ 103dBμV	≤ -60
Slope adjustment range [dB]	0 ÷ 10	Power consumption [W]	1.5
Test point - directional [dB]	-20		

## RA 65Z

Reverse amplifier module with fixed attenuator and equalizer

Gain controlled by 2-state interstage attenuator and indicated by LED.



### TECHNICAL PARAMETERS

Bandwidth [MHz]	5 ÷ 65	NPR for 60MHz load @ 26dB $\mu$ V/Hz [dBc]	≤ -60
Gain [dB]	25/20	Intermodulation distortions [dBc]:	
Noise figure [dB]	≤ 4	• third order beat IMD3 @ 115dB $\mu$ V	≤ -60
Level adjustment range [dB]	0 ÷ 20 step 1	• second order beat IMD2 @ 103dB $\mu$ V	≤ -60
Slope adjustment range [dB]	0 ÷ 10 step 1	Power consumption [W]	1.5
Test point - directional [dB]	-20		

## ATG 800 ÷ ATG 820

Fixed attenuator module for reverse amplifier module RA 65Z

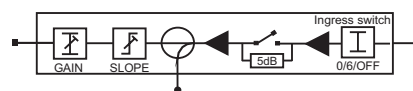
Attenuation range: 0 ÷ 20 dB, step 1dB



## RA 65M

Reverse path amplifier module with variable attenuator and equalizer and manual ingress switch

Gain controlled by 2-state interstage attenuator and indicated by LED.



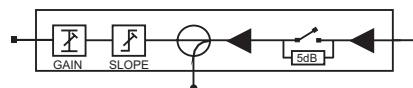
### TECHNICAL PARAMETERS

Bandwidth [MHz]	5 ÷ 65	NPR for 60MHz load @ 26dB $\mu$ V/Hz [dBc]	≤ -60
Gain [dB]	25/20	Intermodulation distortions [dBc]:	
Noise figure [dB]	≤ 4	• third order beat IMD3 @ 115dB $\mu$ V	≤ -60
Level adjustment range [dB]	0 ÷ 20	• second order beat IMD2 @ 103dB $\mu$ V	≤ -60
Slope adjustment range [dB]	0 ÷ 10	Ingress control [dB]	0 / 6 / 30
Test point - directional [dB]	-20	Power consumption [W]	1.5

## RA 42

Reverse amplifier module with variable attenuator and equalizer

Gain controlled by 2-state interstage attenuator and indicated by LED.



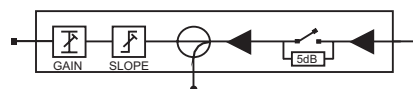
### TECHNICAL PARAMETERS

Bandwidth [MHz]	5 ÷ 42	NPR for 37MHz load @ 28dB $\mu$ V/Hz [dBc]	≤ -60
Gain [dB]	25/20	Intermodulation distortions:	
Noise figure [dB]	≤ 4	• third order beat IMD3 @ 115dB $\mu$ V	≤ -60
Level adjustment range [dB]	0 ÷ 20	• second order beat IMD2 @ 103dB $\mu$ V	≤ -60
Slope adjustment range [dB]	0 ÷ 10	Power consumption [W]	1.5
Test point - directional [dB]	-20		

## RA 30

Reverse amplifier module with variable attenuator and equalizer

Gain controlled by 2-state interstage attenuator and indicated by LED.



### TECHNICAL PARAMETERS

Bandwidth [MHz]	5 ÷ 30	NPR for 25MHz load @ 29dB $\mu$ V/Hz [dBc]	≤ -60
Gain [dB]	25/20	Intermodulation distortions:	
Noise figure [dB]	≤ 4	• third order beat IMD3 @ 115dB $\mu$ V	≤ -60
Level adjustment range [dB]	0 ÷ 20	• second order beat IMD2 @ 103dB $\mu$ V	≤ -60
Slope adjustment range [dB]	0 ÷ 10	Power consumption [W]	1.5
Test point - directional [dB]	-20		

Specifications are subject to change without notice.

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