

PASSIVE MODULES

The standard COMTECH passives are needed to the most type of network elements for setting up the desired gain and slope values. Further modules are available for symmetrical and asymmetrical signal division as well as for filtering, diplexing, cable simulation and response equalization.

ATXX ATTENUATOR MODULE, J0, J0T75, 2T75, T75J0 MODULES

GENERAL PARAMETERS

Operating frequency range [MHz]	5-1218
Return loss [dB]	>18
Temperature range [°C]	-40...+60

ORDERING INFORMATION

A **T** **X** **X**



Attenuation	
(1)	(Attenuation 1dB)
2	Attenuation 2dB
(3)	(Attenuation 3dB)
4	Attenuation 4dB
(5)	(Attenuation 5dB)
6	Attenuation 6dB
8	Attenuation 8dB
10	Attenuation 10dB
12	Attenuation 12dB
14	Attenuation 14dB
16	Attenuation 16dB
18	Attenuation 18dB
20	Attenuation 20dB



J **0**

Jumper module

J **0** **T** **7** **5**

Jumper/Terminator module (optional module for LA1000 and LE1200)

2 **T** **7** **5**

Terminator module

T **7** **5** **J** **0**

Jumper/Terminator module (optional module for MB1000-M and MB1200)

EQxxx-xx EQUALIZER MODULE

ORDERING INFORMATION

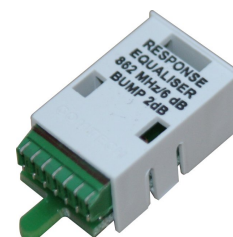
Atten. [dB]	Breakpoint frequency of tilt [MHz]									
	30	65	85	204	302	606	750	862	1000	1218
2	EQ30-2	EQ65-2	EQ85-2	EQ204-2	EQ302-2	EQ606-2	EQ750-2	EQ862-2	EQ1G-2	EQ1G2-2
4	EQ30-4	EQ65-4	EQ85-4	EQ204-4	EQ302-4	EQ606-4	EQ750-4	EQ862-4	EQ1G-4	EQ1G2-4
6	EQ30-6	EQ65-6	EQ85-6	EQ204-6	EQ302-6	EQ606-6	EQ750-6	EQ862-6	EQ1G-6	EQ1G2-6
8	EQ30-8	EQ65-8	EQ85-8	EQ204-8	EQ302-8	EQ606-8	EQ750-8	EQ862-8	EQ1G-8	EQ1G2-8
10	EQ30-10	EQ65-10	EQ85-10	EQ204-10	EQ302-10	EQ606-10	EQ750-10	EQ862-10	EQ1G-10	EQ1G2-10
12	-	EQ65-12	EQ85-12	EQ204-14	EQ302-12	EQ606-12	EQ750-12	EQ862-12	EQ1G-12	EQ1G2-12
14	-	-	-	EQ204-14	EQ302-14	EQ606-14	EQ750-14	EQ862-14	EQ1G-14	EQ1G2-14
16	-	-	-	-	EQ302-16	EQ606-16	EQ750-16	EQ862-16	EQ1G-16	EQ1G2-16
18	-	-	-	-	EQ302-18	EQ606-18	EQ750-18	EQ862-18	EQ1G-18	-
20	-	-	-	-	-	EQ606-20	EQ750-20	EQ862-20	-	-
22	-	-	-	-	-	-	EQ750-22	EQ862-22	-	-



REQxxx/x-xx RESPONSE EQUALIZER MODULE

ORDERING INFORMATION

	TILT value [dB]	Breakpoint frequency of TILT [MHz]	Correction [dB]	Correction [MHz]
REQ450/6-B2	6	450	+2	VHF III
REQ606/6-B2	6	606	+2	VHF III
REQ750/6-B2	6	750	+2	VHF III
REQ862/6-B2	6	862	+2	VHF III
REQ606/6-D2	6	606	-2	VHF III
REQ750/6-D2	6	750	-2	VHF III
REQ606/6-B606	6	606	+2	500-606
REQ862/6-B220	6	862	+2	220
REQ862/6-B530	6	862	+2	530
REQ862/6-B862	6	862	+2	750-862
REQ862/8-B862	8	862	+2	750-862
REQ862/10-B862	10	862	+2	750-862
REQ862/6-B862-C	6	862	+2	700-862
REQ230-B2	-	-	+2	VHF III



Specifications are subject to change without notice!

CS-xx CABLE SIMULATOR MODULE

ORDERING INFORMATION

C S X X

Attenuation ⁽¹⁾		Attenuation ⁽¹⁾		Attenuation ⁽¹⁾	
2	2dB	6	6dB	10	10dB
4	4dB	8	8dB		

(1) Attenuation value at 1000 MHz



SP2 SPLITTER MODULE

ORDERING INFORMATION

S P 2



DCxx DIRECTIONAL COUPLER MODULE

ORDERING INFORMATION

D C X X

Tap attenuation	
8	Tap attenuation 8dB, insertion loss 2dB
12	Tap attenuation 12dB, insertion loss 1.5dB
16	Tap attenuation 16dB, insertion loss 1dB



DFxx/xx DIPLEX FILTER MODULE

TECHNICAL SPECIFICATIONS

Type of the diplex filter	DF30/47	DF65/85
Breakpoint frequency (return path) [MHz]	30	65
Breakpoint frequency (forward path) [MHz]	47	85
Forward path frequency range [MHz]	47-862	85-862
Return path frequency range [MHz]	5-30	5-65

Specifications are subject to change without notice!

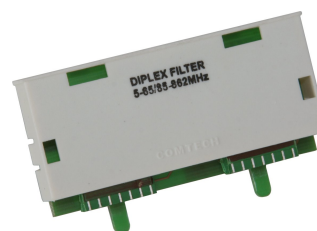
Return loss (forward path) [dB]		>18 (-1.5dB/octave)
Return loss (return path) [dB]		>18
Insertion loss [dB]		<1
Group delay [ns]	15	10
Temperature range [°C]		-40...+60

ORDERING INFORMATION

D F X X / X X



Breakpoint frequency	
30/47	Breakpoint frequency 30/47MHz
65/85	Breakpoint frequency 65/85MHz



DFxx/xx-H20 DIPLEX FILTER MODULE

GENERAL PARAMETERS

Functionally is equal to DF30/47 and DF65/85 module but in return path you find a 20MHz high-pass filter.

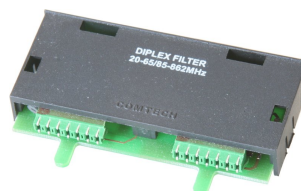
TECHNICAL SPECIFICATIONS

RF parameters	DF30/47-H20	DF65/85-H20
Breakpoint frequency (return path) [MHz]	30	65
Breakpoint frequency (forward path) [MHz]	47	85
Forward path frequency range [MHz]	47-862	85-862
Return path frequency range [MHz]	20-30	20-65
Highpass filter attenuation [dB]		>40
Return loss (forward path) [dB]		>18 (-1.5dB/octave)
Return loss (return path) [dB]		>18
Insertion loss [dB]		<1
Group delay [ns]		15

ORDERING INFORMATION

D F 3 0 / 4 7 - H 2 0

D F 6 5 / 8 5 - H 2 0



Specifications are subject to change without notice!

DFxx/xx-B DIPLEX FILTER MODULE, RELPF-xx RETURN LOW PASS FILTER MODULE

GENERAL PARAMETERS

These modules are built-into the MT1000, MB1000/1200, LE1000/1200 and LA1000 amplifiers respectively into MO1002, MO1003 and MO1004 optical nodes.

MT1000 and MB1000/1200 contains 3 DFxx/xx-B and 1 RELPF-xx modules, LE1000/1200 contains 2 DFxx/xx-B and 1 RELPF-xx modules, MO1003 optical node contains 3 DFxx/xx-B modules, MO1002 and MO1004 optical node contains 2 DFxx/xx-B modules, LA1000 contains 2 DFxx/xx-B modules.

TECHNICAL SPECIFICATIONS

Type of the diplex filter	DF30/47-B	DF65/85-B	DF85/105-B	DF204/258-B
Breakpoint frequency (return path) [MHz]	30	65	85	204
Breakpoint frequency (forward path) [MHz]	47	85	105	258
Forward path frequency range [MHz]	47-1218	85-1218	105-1218	258-1218
Return path frequency range [MHz]	5-30	5-65	5-85	5-204
Return loss (forward path) [dB]		>18 (-1.5dB/octave)		
Return loss (return path) [dB]		>18		
Insertion loss [dB]		<1		
Group delay [ns]	15	10	10	10

ORDERING INFORMATION

D F X X / X X X - B

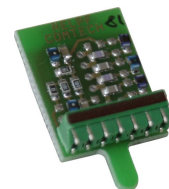
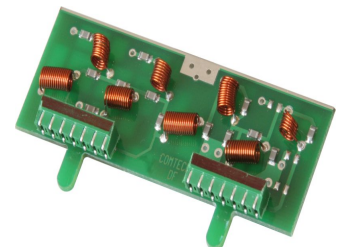


Breakpoint frequency	
30/47	Breakpoint frequency 30/47MHz
65/85	Breakpoint frequency 65/85MHz
85/105	Breakpoint frequency 85/105MHz
204/258	Breakpoint frequency 204/258MHz

R E L P F - X X



Breakpoint frequency	
30	Breakpoint frequency 30MHz
65	Breakpoint frequency 65MHz
85	Breakpoint frequency 85MHz
204	Breakpoint frequency 204MHz



DFxx/xx-C DIPLEX FILTER MODULE

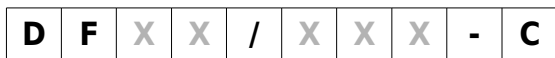
GENERAL PARAMETERS

This module is used in the MA1012 amplifier.

TECHNICAL SPECIFICATIONS

Type of the diplex filter	DF30/47-C	DF65/85-C	DF85/105-C
Breakpoint frequency (return path) [MHz]	30	65	85
Breakpoint frequency (forward path) [MHz]	47	85	105
Forward path frequency range [MHz]	47-1218	85-1218	105-1218
Return path frequency range [MHz]	5-30	5-65	5-85
Return loss (forward path) [dB]	>18 (-1.5dB/octave)		
Return loss (return path) [dB]	>18		
Insertion loss [dB]	<1		
Group delay [ns]	15	10	10

ORDERING INFORMATION



Breakpoint frequency	
30/47	Breakpoint frequency 30/47MHz
65/85	Breakpoint frequency 65/85MHz
85/105	Breakpoint frequency 85/105MHz



DFxx/xx-D DIPLEX FILTER MODULE

GENERAL PARAMETERS

This module is used in the MO1201 optical node.

TECHNICAL SPECIFICATIONS

Type of the diplex filter	DF65/85-C	DF85/105-C	DF204/258-C
Breakpoint frequency (return path) [MHz]	65	85	204
Breakpoint frequency (forward path) [MHz]	85	105	258
Forward path frequency range [MHz]	85-1218	105-1218	258-1218
Return path frequency range [MHz]	5-65	5-85	5-204

Specifications are subject to change without notice!

Return loss (forward path) [dB]		>18 (-1.5dB/octave)	
Return loss (return path) [dB]		>18	
Insertion loss [dB]		<1	
Group delay [ns]	10	10	10

ORDERING INFORMATION

D F X X / X X X - D



Breakpoint frequency	
65/85	Breakpoint frequency 65/85MHz
85/105	Breakpoint frequency 85/105MHz
204/258	Breakpoint frequency 204/258MHz

HPFxx HIGH PASS FILTER MODULE

ORDERING INFORMATION

H P F X X



Breakpoint frequency	
20	Breakpoint frequency 20MHz
47	Breakpoint frequency 47MHz

Remarks: Suppression loss >40dB



mEQxxx-6 MINIATURE EQUALIZER MODULE

ORDERING INFORMATION

m E Q X X X - 6



Breakpoint frequency	
606	Breakpoint frequency 606MHz
862	Breakpoint frequency 862MHz

Remarks: These modules are used in MA and HA amplifiers. TILT value 6dB.



JXPXX ATTENUATOR MODULE (AMINI)

ORDERING INFORMATION

J	X	P	X	X
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Attenuation		Attenuation		Attenuation	
0	Attenuation 0dB (Jumper)	6	Attenuation 6dB	14	Attenuation 14dB
1	Attenuation 1dB	7	Attenuation 7dB	16	Attenuation 16dB
2	Attenuation 2dB	8	Attenuation 8dB	18	Attenuation 18dB
3	Attenuation 3dB	9	Attenuation 9dB	20	Attenuation 20dB
4	Attenuation 4dB	10	Attenuation 10dB		
5	Attenuation 5dB	12	Attenuation 12dB		



Specifications are subject to change without notice!