

MAXNET® II

Platinum Series

RF & Optical Signal Management

Patented
U.S.# 7,142,414



Passive Products



3RU Active Chassis
(front view)

Diplex Filter Module:

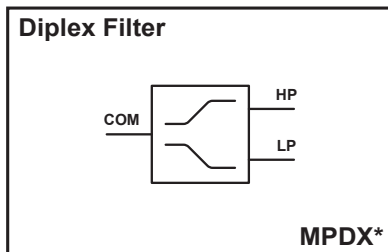
- ▶ High density diplex filter module to separate forward & return path spectrum
- ▶ Standard F connectors
- ▶ Custom diplex frequencies available upon request (42/54, 65/85, 85/102, 204/258 MHz)
- ▶ Module takes up 1 slot in a standard MAXNET® II 3RU chassis (total of 24 slots)

Diplex Filter Specifications

SPECIFICATIONS		MPDX42F	MPDX42FH	MPDX65F	MPDX65FH	MPDX85F	MPDX85FH	MPDX204F	MPDX204FH
MEASUREMENT	FREQUENCY	QA		QA		QA		QA	
F _L LOWPASS CUTOFF	--	42 MHz	42 MHz	65 MHz	65 MHz	85 MHz	85 MHz	204 MHz	204 MHz
F _H HIGHPASS CUTOFF	--	54 MHz	54 MHz	85 MHz	85 MHz	102 MHz	102 MHz	258 MHz	258 MHz
LOSS: COMMON - HIGH	5-F _L	> 45 dB	> 45 dB	> 45 dB	> 45 dB	> 45 dB	> 45 dB	> 45 dB	> 45 dB
	F _H -1002	< 2 dB	< 2 dB	< 2 dB	< 2 dB	< 2 dB	< 2 dB	< 2 dB	< 2 dB
	F _H -1218	< 2 dB	< 2 dB	< 2 dB	< 2 dB	< 2 dB	< 2 dB	< 2 dB	< 2 dB
LOSS: COMMON - LOW	5-F _L	< 2 dB	< 2 dB	< 2 dB	< 2 dB	< 2 dB	< 2 dB	< 2 dB	< 2 dB
	F _H -1002	> 45 dB	> 45 dB	> 45 dB	> 45 dB	> 45 dB	> 45 dB	> 45 dB	> 45 dB
	F _H -1218	> 45 dB	> 45 dB	> 45 dB	> 45 dB	> 45 dB	> 45 dB	> 45 dB	> 45 dB
PORT RETURN LOSS (Min)	5-F _L	18 dB	18 dB	18 dB	18 dB	18 dB	18 dB	18 dB	18 dB
	F _H -1002	18 dB	18 dB	18 dB	18 dB	18 dB	18 dB	18 dB	18 dB
	F _H -1218	18 dB	18 dB	18 dB	18 dB	18 dB	18 dB	18 dB	18 dB
RFI (Min)	5-1218 MHz	100 dB	100 dB	100 dB	100 dB	100 dB	100 dB	100 dB	
GROUP DELAY ADJACENT CHANNEL ⁽¹⁾	HIGHPASS	< 15ns							
	LOWPASS	< 10ns							
OPERATING TEMPERATURE		0°C to +50°C (+32°F to +122°F)							
HUMIDITY		5-95% (without condensation)							
DIMENSIONS		4.9"H x 0.69"W x 9.8"D (12.45H x 1.75W x 24.9D cm)							
WEIGHT		0.88 lbs (0.4 kg)							
NOTE: (1) Based on ANSI/SCTE 45 2012 standard.									



Functional Schematic



Ordering Information

Part Number	Description
MPDX42F	Diplex Filter, 42/54 MHz, F Connectors, 1 GHz
MPDX42FH	Diplex Filter, 42/54 MHz, F Connectors, 1.218 GHz
MPDX65F	Diplex Filter, 65/85 MHz, F Connectors, 1 GHz
MPDX65FH	Diplex Filter, 65/85 MHz, F Connectors, 1.218 GHz
MPDX85F	Diplex Filter, 85/102 MHz, F Connectors, 1 GHz
MPDX85FH	Diplex Filter, 85/102 MHz, F Connectors, 1.218 GHz
MPDX204F	Diplex Filter, 204/258 MHz, F Connectors, 1 GHz
MPDX204FH	Diplex Filter, 204/258 MHz, F Connectors, 1.218 GHz

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Specifications subject to change without notice.



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