

5RU Chassis

(front view)



Passive Modules Diplex Filter Modules

D3.1/CCAP™ Compliant

1.2 GHz

Features

 Diplex filter modules conveniently separate or combine the forward and reverse path frequency bands so that the respective signals can then be routed to the appropriate downstream, or upstream transmission equipment

Specifications

Diplex Filter		N-MDPXF3L / N-MDPXB3L	N-MDPXF3LH	N-MDPXF3H / N-MDPXB3H	N-MDPXF3HH
MEASUREMENT	FREQUENCY F _{min} - F _{low} / F _{high} - F _{max}	5-42 MHz / 54-1002 MHz (dB)	5-42 MHz / 54-1218 MHz (dB)	5-65 MHz / 88-1002 MHz (dB)	5-65 MHz / 88-1218 MHz (dB)
INSERTION LOSS (Max) LOW PORT	< F _{low}	1.4	1.4	1.4	1.4
INSERTION LOSS (Max) HIGH PORT	> F _{high}	1.4	1.4	1.4	1.4
FLATNESS (Max) LOW PORT	< F _{low}	0.5	0.5	0.5	0.5
FLATNESS (Max) HIGH PORT	> F _{high}	0.5	0.8	0.5	0.8
RETURN LOSS (Min) LOW PORT	< F _{low}	17	17	17	17
RETURN LOSS (Min) HIGH PORT	> F _{high}	15	15	15	15
RETURN LOSS (Min) COMMON PORT	< F _{low}	17	17	17	17
COMMON PORT	> F _{high}	15	15	15	15
ISOLATION (Min) LOW TO HIGH PORTS	< F _{low}	50	50	50	50
	F _{high} - 860	45	45	45	45
	> 860	40	38	40	38
ISOLATION (Min) ADJACENT CIRCUITS	< 860	70	70	70	70
	> 860	65	65	65	65



Specifications

RF Module*

ENVIRONMENTAL				
OPERATING TEMPERATURE	0°C to +50°C (+32°F to +122°F)			
STORAGE TEMPERATURE	-40°C to +70°C (-40°F to +158°F)			
STORAGE HUMIDITY	5-95% Non-condensing			
ELECTRICAL				
EMI (External)	< -100 dBc			
INTERNAL ISOLATION OF DUAL/TRIPLE MODULES	< -70 dBc			
FLATNESS	Defined as MAX +/- Deviation from Linear Trend Line			
IMPEDANCE	75 Ω Nominal			
OTHER				
DIMENSIONS	8.25"H x 0.83"W x 4.1"D (20.96H x 2.1W x 10.4D cm)			
WEIGHT	1.43 lbs (0.65 kg)			



 $[\]ensuremath{^{\star}}$ Unless otherwise stated by module specific table.

Diplex Filter н COM LO н LO

Functional Schematic

Ordering Information

Part Number	Description		
Domestic Diplex Filter Module			
N-MDPXF3LH	F Connector, Low 5-42 MHz, High 54-1218 MHz		
N-MDPXF3L	F Connector, Low 5-42 MHz, High 54-1002 MHz		
N-MDPXB3L	BNC Connector, Low 5-42 MHz, High 54-1002 MHz		
International Diplex Filter Module			
N-MDPXF3HH	F Connector, Low 5-65 MHz, High 88-1218 MHz		
N-MDPXF3H	F Connector, Low 5-65 MHz, High 88-1002 MHz		
N-MDPXB3H	BNC Connector, Low 5-65 MHz, High 88-1002 MHz		

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