

MAXNET®



Patented
U.S.# 6,842,348;
Cdn.# 2,404,844

5RU Standard RF Chassis
(front view)

Passive Modules DC Modules

D3.1/CCAP™
Compliant

Specifications

DC Modules

MEASUREMENT	FREQUENCY	MN3/9DCPF		MN3/12DCPF ⁽¹⁾		MN3/20DCPF	
		QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)
TAP LOSS & FLATNESS	5-10 MHz	9 +/- 0.5	9 +/- 0.4	12 +/- 0.6	12 +/- 0.5	20 +/- 0.6	20 +/- 0.5
	10-50 MHz	9 +/- 0.5	9 +/- 0.4	12 +/- 0.6	12 +/- 0.5	20 +/- 0.6	20 +/- 0.5
	50-200 MHz	9 +/- 0.5	9 +/- 0.4	12 +/- 0.6	12 +/- 0.5	20 +/- 0.6	20 +/- 0.5
	200-550 MHz	9 +/- 0.7	9 +/- 0.5	12 +/- 0.7	12 +/- 0.6	20 +/- 0.7	20 +/- 0.6
	550-750 MHz	9 +/- 0.8	9 +/- 0.5	12 +/- 0.8	12 +/- 0.7	20 +/- 0.8	20 +/- 0.7
	750-860 MHz	9 +/- 1	9 +/- 0.7	12 +/- 1	12 +/- 0.8	20 +/- 1	20 +/- 0.8
	860-1000 MHz	9 +/- 1.2	9 +/- 0.8	12 +/- 1.2	12 +/- 1	20 +/- 1.2	20 +/- 1
INSERTION LOSS	5-10 MHz	1.3	1	0.8	0.7	0.8	0.6
	10-50 MHz	1.3	1	0.8	0.6	0.8	0.6
	50-200 MHz	1.4	1	0.8	0.7	0.8	0.6
	200-550 MHz	1.8	1.2	1	0.9	0.8	0.6
	550-750 MHz	1.8	1.5	1.2	1.1	0.8	0.7
	750-860 MHz	2	1.6	1.4	1.3	1	0.8
	860-1000 MHz	2.3	2	1.6	1.5	1.2	0.8
ISOLATION (Min)	5-10 MHz	30	33	26	28	32	35
	10-50 MHz	32	35	30	32	32	35
	50-200 MHz	30	35	30	32	32	35
	200-550 MHz	30	33	28	30	32	35
	550-750 MHz	28	30	26	28	30	33
	750-860 MHz	25	28	26	28	28	33
	860-1000 MHz	22	26	24	26	28	30
INPUT & OUTPUT RETURN LOSS (Min)	5-10 MHz	18	19	18	20	20	23
	10-50 MHz	19	20	20	22	22	23
	50-200 MHz	20	22	20	22	20	22
	200-550 MHz	20	22	20	22	20	22
	550-750 MHz	18	22	20	22	18	22
	750-860 MHz	18	20	20	22	18	22
	860-1000 MHz	18	20	18	22	18	22



MNxD CPF
(front & rear views)



MN3/x CPF
(front & rear views)

Specifications

DC Modules (cont'd)

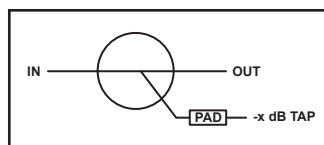
		MN3/9DCPF		MN3/12DCPF ⁽¹⁾		MN3/20DCPF	
MEASUREMENT	FREQUENCY	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)	QA (dB)	TYP (dB)
TAP RETURN LOSS (Min)	5-10 MHz	18	20	18	22	20	23
	10-50 MHz	20	23	18	23	22	25
	50-200 MHz	20	23	20	22	22	23
	200-550 MHz	20	23	20	22	20	22
	550-750 MHz	20	22	20	22	20	22
	750-860 MHz	18	20	20	22	20	22
	860-1000 MHz	18	20	18	22	18	22
RFI (Min)	5-1000 MHz	100	110	100	110	100	110
OPERATING TEMPERATURE		0°C to +50°C (+32°F to +122°F)					
HUMIDITY		5-95% (without condensation)					
DIMENSIONS		8.45"H x 0.9"W x 3.25"D (21.46H x 2.3W x 23.88D cm)					
WEIGHT		8.25 lbs (0.6 kg)					

NOTES:

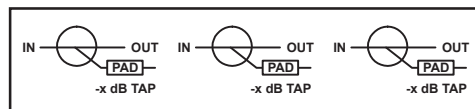
(1) For triple DC modules (MN3/xDCP*), device to device isolation > 85 dB.

Ordering Information

Part Number	Description
MN9DCPF	9 dB DC: Pads, F Connectors (input, output and tap on rear)
MN20DCPF	20 dB DC: Pads, F Connectors (input, output and tap on rear)
MN3/9DCPF	Three 9 dB DCs in One Module; Pads on Tap Ports, F Connectors
MN3/12DCPF	Three 12 dB DCs in One Module; Pads on Tap Ports, F Connectors
MN3/20DCPF	Three 20 dB DCs in One Module; Pads on Tap Ports, F Connectors



MNxDCPF



MN3/xDCPF

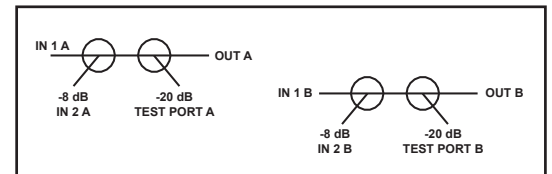
x = dB value (9, 12, or 20 dB)
F connector

Functional Schematics

Specifications

DC Module

MEASUREMENT	MN8/20DDCF			
	FREQUENCY			
	5-10 MHz	10-550 MHz	550-870 MHz	870-1000 MHz
INSERTION LOSS				
IN1 TO OUT (Max) (dB)	2.5	3	3.5	4
IN2 TO OUT (dB)	8 +/- 1	8 +/- 1	8 +/- 1	8 +/- 1.2
IN1 TO TEST (dB)	20 +/- 1	20 +/- 1	20 +/- 1.2	20 +/- 1.5
IN2 TO TEST (dB)	25 +/- 1	25 +/- 1	25 +/- 1.2	25 +/- 1.5
RETURN LOSS (Min)				
IN1 (dB)	16	20	20	18
IN2 (dB)	16	20	20	18
OUT (dB)	16	18	18	16
TEST (dB)	16	16	15	15
INSOLATION (Min)				
IN1 to IN2 (dB)	30	30	40	26
OUT TO TEST (dB)+A22	30	30	25	24
UNIT 1 TO UNIT 2 (dB)	70	70	70	70
OTHER				
OPERATING TEMPERATURE	0°C to +50°C (+32°F to +122°F)			
HUMIDITY	5-95% (without condensation)			
DIMENSIONS	8.45"H x 0.9"W x 3.25"D (21.46H x 2.3W x 8.25D cm)			
WEIGHT	1.32 lbs (0.6 kg)			



Functional Schematic

Ordering Information

Part Number	Description
MN8/20DDCF	Dual 8/20 Directional Coupler Module, F Connectors

Plug-in Pad



* is MN*PAD value from 0-20 dB in 1 dB steps

For Plug-in Pad specifications and ordering information, see MAXNET Plug-in Pad & EQs data sheet (#ANW0741)

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MAXNET specifications are only valid when ATX plug-in pads and EQs are used.

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