

MAXNET®

RF Signal Management

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



5RU Standard RF Chassis
(front view)

Passive Products

DC Modules:

DC Module Specifications

SPECIFICATIONS		MN9DCP* MN3/9DCP*		MN3/12DCP*(1)		MN20DCP* MN3/20DCP*	
MEASUREMENT	FREQUENCY	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 +/- 1.0	9 +/- 0.7	12 +/- 1.0	12 +/- 0.8	20 +/- 1.0	20 +/- 0.8
INSERTION LOSS	5-10 MHz	1.3	1.0	0.8	0.7	0.6	0.5
	10-50 MHz	1.3	1.0	0.8	0.6	0.6	0.5
	50-200 MHz	1.4	1.0	0.8	0.7	0.6	0.5
	200-550 MHz	1.8	1.2	1.0	0.9	0.6	0.5
	550-750 MHz	1.8	1.5	1.2	1.1	0.8	0.7
	750-860 MHz	2.0	1.6	1.4	1.3	1.0	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
INPUT & OUTPUT RETURN LOSS (Min)	5-10 MHz	18	19	18	20	22	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
TAP RETURN LOSS (Min)	5-10 MHz	18	20	18	22	22	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
RFI (Min)	5-1000 MHz	100	110	100	110	100	110

NOTES:
* F = F connector, B = BNC connector.
(1) For triple DC modules (MN3/xDCP*), device to device isolation > 85 dB.



MNxD*CP*
(front & rear views)



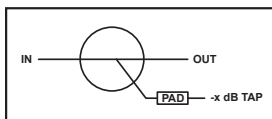
MN3/x*DCP*
(front & rear views)

Ordering Information

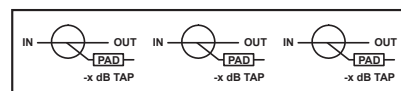
Part Number	Description	Part Number	Description
MN9DCPF	9 dB DC: Pads, F Connectors (input, output and tap on rear)	MN3/12DCPF	Three 12 dB DCs in One Module; Pads on Tap Ports, F Connectors
MN9DCPB	9 dB DC: Pads, BNC Connectors (input, output and tap on rear)	MN3/12DCPB	Three 12 dB DCs in One Module; Pads on Tap Ports, BNC Connectors
MN20DCPF	20 dB DC: Pads, F Connectors (input, output and tap on rear)	MN3/20DCPF	Three 20 dB DCs in One Module; Pads on Tap Ports, F Connectors
MN20DCPB	20 dB DC: Pads, BNC Connectors (input, output and tap on rear)	MN3/20DCPB	Three 20 dB DCs in One Module; Pads on Tap Ports, BNC Connectors
MN3/9DCPF	Three 9 dB DCs in One Module; Pads on Tap Ports, F Connectors		
MN3/9DCPB	Three 9 dB DCs in One Module; Pads on Tap Ports, BNC Connectors		

Functional Schematics

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



MNxD*CP*



MN3/x*DCP*



MN*PAD

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

For Plug-In PAD specifications &
ordering information, see RF
Passive Pad/EQ spec sheet.

* F = F connector, B = BNC connector

RF Signal Management

DC Modules (cont'd):

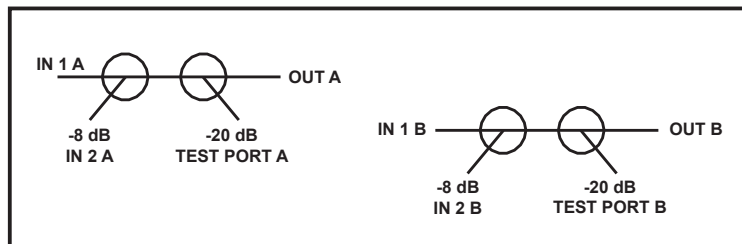
DC Module Specifications (MN8/20DDC)

MEASUREMENT	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+/-1.0	8+/-1.0	8+/-1.0	8+/-1.2
In1 to Test (dB)	20+/-1.0	20+/-1.0	20+/-1.2	20+/-1.5
In2 to Test (dB)	25+/-1.0	25+/-1.0	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
ISOLATION (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

Ordering Information

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

Functional Schematic



For Plug-In PAD & EQ specifications & ordering information, see RF Passive Plug-In Pad & EQs spec sheet.

Specifications subject to change without notice.
MAXNET specifications are only valid when ATX plug-in pads & EQs are used.

