



MAXNET®

Passive Modules Broadcast/Narrowcast Combiners



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

5RU Standard RF Chassis
(front view)

D3.1/CCAP™
Compliant

Specifications

Broadcast/Narrowcast Combiner

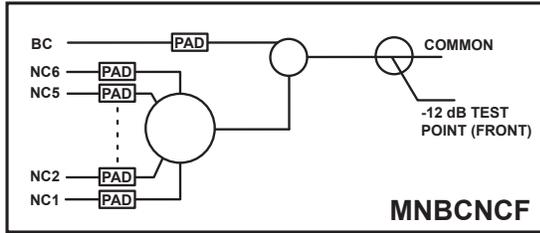
		MNBCNCF
MEASUREMENT	FREQUENCY	QA (dB)
INSERTION LOSS & FLATNESS BC PORT	5-10 MHz	3.9 +/- 0.3
	10-50 MHz	3.8 +/- 0.3
	50-200 MHz	3.8 +/- 0.4
	200-550 MHz	3.9 +/- 0.5
	550-750 MHz	4.4 +/- 0.5
	750-860 MHz	4.6 +/- 0.5
INSERTION LOSS & FLATNESS NC PORTS	5-10 MHz	12.3 +/- 0.3
	10-50 MHz	12.3 +/- 0.3
	50-200 MHz	12.3 +/- 0.4
	200-550 MHz	12.8 +/- 0.6
	550-750 MHz	13.4 +/- 0.6
	750-860 MHz	14.2 +/- 0.7
TEST PORT LOSS & FLATNESS ⁽¹⁾	5-10 MHz	12 +/- 0.5
	10-50 MHz	12 +/- 0.5
	50-200 MHz	12 +/- 0.5
	200-550 MHz	12 +/- 0.5
	550-750 MHz	12 +/- 0.5
	750-860 MHz	12 +/- 0.7
NC-NC ISOLATION (Min) PORT-PORT	5-10 MHz	28
	10-50 MHz	28
	50-200 MHz	28
	200-550 MHz	28
	550-750 MHz	28
	750-860 MHz	28
NC-NC ISOLATION (Min) PORT-PORT	5-10 MHz	28
	10-50 MHz	28
	50-200 MHz	28
	200-550 MHz	28
	550-750 MHz	28
	750-860 MHz	28
NC-NC ISOLATION (Min) PORT-PORT	5-10 MHz	28
	10-50 MHz	28
	50-200 MHz	28
	200-550 MHz	28
	550-750 MHz	28
	750-860 MHz	28

Broadcast/Narrowcast Combiner (cont'd)

		MNBCNCF
MEASUREMENT	FREQUENCY	QA (dB)
BC-NC ISOLATION (Min) PORT-PORT	5-10 MHz	37
	10-50 MHz	40
	50-200 MHz	38
	200-550 MHz	37
	550-750 MHz	37
	750-860 MHz	37
	860-1000 MHz	37
COMMON PORT RETURN LOSS (Min)	5-10 MHz	18
	10-50 MHz	18
	50-200 MHz	18
	200-550 MHz	18
	550-750 MHz	18
	750-860 MHz	18
BC & NC PORT RETURN LOSS (Min)	5-10 MHz	18
	10-50 MHz	20
	50-200 MHz	20
	200-550 MHz	20
	550-750 MHz	18
	750-860 MHz	18
RFI (Min)	5-1000 MHz	100
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)

NOTE:

(1) Relative Loss with respect to COMMON.



Functional Schematic

Ordering Information

Part Number	Description
MNBCNCF	Broadcast/Narrowcast Combiner, 12 dB Front Test Port, F Connectors

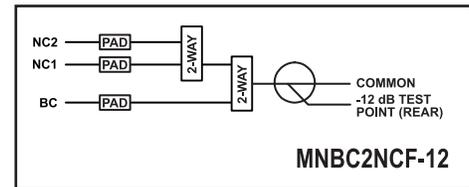


Specifications

2-way Broadcast/Narrowcast Combiners

MEASUREMENT	FREQUENCY	MNBC2NCF-12		
		MIN (dB)	TYP (dB)	MAX (dB)
INSERTION LOSS, NC IN	5-200 MHz	6.9	7.2	7.5
	200-550 MHz	6.9	7.3	7.8
	550-860 MHz	7.0	7.4	8.2
	860-1002 MHz	7.2	7.8	8.2
INSERTION LOSS, BC IN	5-200 MHz	3.6	3.9	4.2
	200-550 MHz	3.6	4	4.4
	550-860 MHz	3.9	4.5	5.1
	860-1002 MHz	4.2	4.8	5.1
RETURN LOSS	5-42 MHz	17	18	
	42-1002 MHz	18	20	
ISOLATION, NC-NC INPUT	5-1002 MHz	28	30	
ISOLATION, NC-BC INPUT	5-50 MHz	28	30	
	50-100 MHz	35	37	
	100-1002 MHz	37	40	

Note: Typical expectations (subject to minor change)



Functional Schematic

Ordering Information

Part Number	Description
MNBC2NCF-12	Broadcast + 2x Narrowcast Combiner, 12 dB Rear Test Port, F

Specifications

4-way Broadcast/Narrowcast Combiners

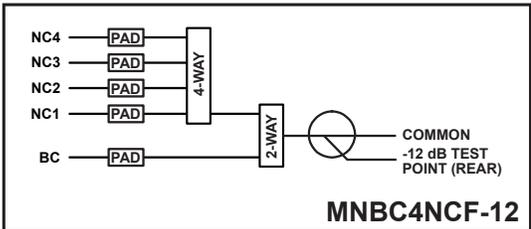
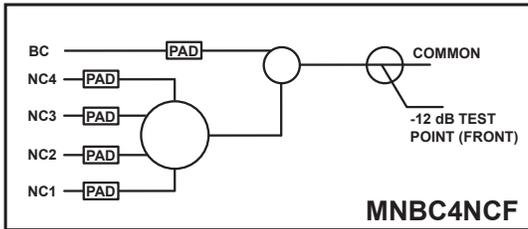
MEASUREMENT	FREQUENCY	MNBC4NCF			MNBC4NCF-12		
		MIN (dB)	TYP (dB)	MAX (dB)	MIN (dB)	TYP (dB)	MAX (dB)
INSERTION LOSS, NC IN	5-200 MHz	10	10.3	10.7	10	10.3	10.7
	200-550 MHz	10.2	10.8	11.4	10.2	10.8	11.4
	550-860 MHz	10.8	11.2	12	10.8	11.2	12
	860-1002 MHz	11	11.8	12.6	11	11.8	12.6
INSERTION LOSS, BC IN	5-200 MHz	3.6	3.9	4.2	3.6	3.9	4.2
	200-550 MHz	3.6	4	4.4	3.6	4	4.4
	550-860 MHz	3.9	4.5	5.1	3.9	4.5	5.1
	860-1002 MHz	4.2	4.8	5.4	4.2	4.8	5.4
RETURN LOSS	5-42 MHz	17	18		17	18	
	42-1002 MHz	18	20		18	20	
ISOLATION, NC-NC INPUT	5-1002 MHz	28	30		28	30	
TAP LOSS, RELATIVE TO OUT	5-1002 MHz	13	12	11	13	12	11
ISOLATION, NC-BC INPUT	5-50 MHz	28	30		28	30	
	50-100 MHz	35	37		35	37	
	100-1002 MHz	37	40		37	40	
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)						



MNBC4NCF



MNBC4NCF-12



Functional Schematics

Ordering Information

Part Number	Description
MNBC4NCF	Broadcast + 4x Narrowcast Combiner, 12 dB Front Test Port, F Connectors
MNBC4NCF-12	Broadcast + 4x Narrowcast Combiner, 12 dB Rear Test Port, F Connectors

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

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ATX Networks

Tel: 289.204.7800 | Toll-Free: 866.YOUR.ATX | support@atx.com