



Passive Products

Broadcast/Narrowcast Combiners:

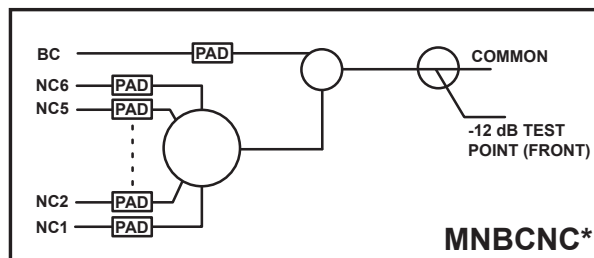
Broadcast/Narrowcast Combiner (MNBCNC*) Specifications

5RU Standard RF Chassis
(front view)

SPECIFICATIONS			
MEASUREMENT	FREQUENCY	MNBCNCF	MNBCNCB
INSERTION LOSS & FLATNESS BC PORT	5-10 MHz	3.9 +/- 0.3	3.9 +/- 0.3
	10-50 MHz	3.8 +/- 0.3	3.8 +/- 0.3
	50-200 MHz	3.8 +/- 0.4	3.8 +/- 0.4
	200-550 MHz	3.9 +/- 0.5	3.9 +/- 0.5
	550-750 MHz	4.4 +/- 0.5	4.4 +/- 0.5
	750-860 MHz	4.6 +/- 0.5	4.6 +/- 0.5
INSERTION LOSS & FLATNESS NC PORTS	5-10 MHz	12.3 +/- 0.3	12.3 +/- 0.3
	10-50 MHz	12.3 +/- 0.3	12.3 +/- 0.3
	50-200 MHz	12.3 +/- 0.4	12.3 +/- 0.4
	200-550 MHz	12.8 +/- 0.6	13 +/- 0.5
	550-750 MHz	13.4 +/- 0.6	13.4 +/- 0.6
	750-860 MHz	14.2 +/- 0.7	13.8 +/- 0.7
TEST PORT LOSS & FLATNESS ⁽¹⁾	5-10 MHz	12 +/- 0.5	12 +/- 0.5
	10-50 MHz	12 +/- 0.5	12 +/- 0.5
	50-200 MHz	12 +/- 0.5	12 +/- 0.5
	200-550 MHz	12 +/- 0.5	12 +/- 0.5
	550-750 MHz	12 +/- 0.5	12 +/- 0.5
	750-860 MHz	12 +/- 0.7	12 +/- 0.7
NC-NC ISOLATION (Min) PORT-PORT	5-10 MHz	28	28
	10-50 MHz	28	28
	50-200 MHz	28	28
	200-550 MHz	28	28
	550-750 MHz	28	28
	750-860 MHz	28	28
BC-NC ISOLATION (Min) PORT-PORT	5-10 MHz	37	35
	10-50 MHz	40	37
	50-200 MHz	38	37
	200-550 MHz	37	37
	550-750 MHz	37	37
	750-860 MHz	37	37
COMMON PORT RETURN LOSS (Min)	5-10 MHz	18	18
	10-50 MHz	18	18
	50-200 MHz	18	18
	200-550 MHz	18	18
	550-750 MHz	18	18
	750-860 MHz	18	18
BC & NC PORT RETURN LOSS (Min)	5-10 MHz	18	18
	10-50 MHz	20	18
	50-200 MHz	20	18
	200-550 MHz	20	18
	550-750 MHz	18	18
	750-860 MHz	18	18
RFI (Min)	5-1000 MHz	100	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



*MNBCNC available with F or BNC connectors

Ordering Information

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

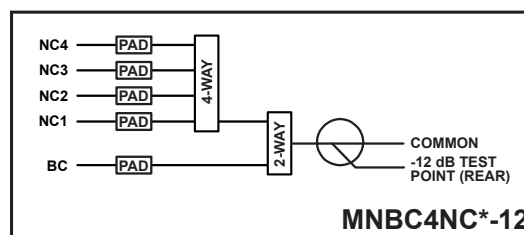
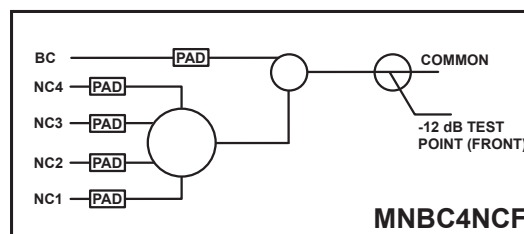
RF Signal Management

Broadcast/Narrowcast Combiners:

4-way Broadcast/Narrowcast Combiners (MNBC4NCF / MNBC4NC*-12) Specifications

SPECIFICATIONS		MNBC4NCF			MNBC4NCF-12 / MNBC4NCB-12		
MEASUREMENT	FREQUENCY	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)						

Functional Schematics



*MNBC4NC-12 available with F or BNC connectors

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
MNBC4NCB-12	Broadcast + 4x Narrowcast Combiner, 12 dB Rear Test Port, BNC Connectors

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