



Passive Products

Splitting/Combining Modules:

Dual 2-Way and Triple 2-Way Module Specifications

5RU Standard RF Chassis
(front view)

| SPECIFICATIONS | | MN2-2TSPF** / MN2-2TSPB** | | MN2-2TCPF** / MN2-2TCPB** | | MN2-3PF** / MN2-3PB** | |
|-----------------------------|--------------|---------------------------|-------------|---------------------------|-------------|-----------------------|-------------|
| MEASUREMENT | FREQUENCY | QA (dB) | TYP (dB) | QA (dB) | TYP (dB) | QA (dB) | TYP (dB) |
| INSERTION LOSS & FLATNESS | 5-10 MHz | 3.9 +/- 0.2 | 3.9 +/- 0.2 | 3.9 +/- 0.2 | 3.9 +/- 0.2 | 3.4 +/- 0.3 | 3.4 +/- 0.2 |
| | 10-50 MHz | 3.8 +/- 0.3 | 3.8 +/- 0.3 | 3.8 +/- 0.3 | 3.8 +/- 0.3 | 3.4 +/- 0.3 | 3.4 +/- 0.2 |
| | 50-200 MHz | 3.8 +/- 0.4 | 3.8 +/- 0.4 | 3.8 +/- 0.4 | 3.8 +/- 0.4 | 3.4 +/- 0.3 | 3.4 +/- 0.2 |
| | 200-550 MHz | 3.9 +/- 0.5 | 3.9 +/- 0.5 | 3.9 +/- 0.5 | 3.9 +/- 0.5 | 3.5 +/- 0.3 | 3.5 +/- 0.2 |
| | 550-750 MHz | 4.4 +/- 0.5 | 4.4 +/- 0.5 | 4.4 +/- 0.5 | 4.4 +/- 0.5 | 3.6 +/- 0.4 | 3.6 +/- 0.3 |
| | 750-860 MHz | 4.6 +/- 0.5 | 4.6 +/- 0.5 | 4.6 +/- 0.5 | 4.6 +/- 0.5 | 3.7 +/- 0.4 | 3.7 +/- 0.3 |
| | 860-1000 MHz | 4.8 +/- 0.6 | 4.8 +/- 0.6 | 4.8 +/- 0.6 | 4.8 +/- 0.6 | 3.9 +/- 0.5 | 3.9 +/- 0.3 |
| TEST PORT LOSS & FLATNESS * | 5-10 MHz | 20 +/- 0.3 | 20 +/- 0.2 | 20 +/- 0.3 | 20 +/- 0.2 | | |
| | 10-50 MHz | 20 +/- 0.3 | 20 +/- 0.2 | 20 +/- 0.3 | 20 +/- 0.2 | | |
| | 50-200 MHz | 20 +/- 0.5 | 20 +/- 0.3 | 20 +/- 0.5 | 20 +/- 0.3 | | |
| | 200-550 MHz | 20 +/- 0.5 | 20 +/- 0.3 | 20 +/- 0.5 | 20 +/- 0.3 | | |
| | 550-750 MHz | 20 +/- 0.8 | 20 +/- 0.5 | 20 +/- 0.8 | 20 +/- 0.5 | | |
| | 750-860 MHz | 20 +/- 1.0 | 20 +/- 0.8 | 20 +/- 1.0 | 20 +/- 0.8 | | |
| | 860-1000 MHz | 20 +/- 1.0 | 20 +/- 0.8 | 20 +/- 1.0 | 20 +/- 0.8 | | |
| ISOLATION (Min) | 5-10 MHz | 26 | 28 | 26 | 28 | 24 | 26 |
| | 10-50 MHz | 30 | 32 | 30 | 32 | 28 | 30 |
| | 50-200 MHz | 30 | 32 | 30 | 32 | 32 | 34 |
| | 200-550 MHz | 30 | 32 | 30 | 32 | 30 | 32 |
| | 550-750 MHz | 30 | 32 | 30 | 32 | 30 | 32 |
| | 750-860 MHz | 30 | 32 | 30 | 32 | 30 | 32 |
| | 860-1000 MHz | 28 | 30 | 28 | 30 | 28 | 30 |
| INPUT RETURN LOSS (Min) | 5-10 MHz | 20 | 21 | 20 | 21 | 20 | 22 |
| | 10-50 MHz | 20 | 21 | 20 | 22 | 20 | 22 |
| | 50-200 MHz | 20 | 22 | 20 | 22 | 20 | 22 |
| | 200-550 MHz | 20 | 22 | 20 | 22 | 20 | 22 |
| | 550-750 MHz | 20 | 22 | 20 | 22 | 20 | 22 |
| | 750-860 MHz | 18 | 20 | 20 | 22 | 18 | 20 |
| | 860-1000 MHz | 18 | 20 | 18 | 22 | 18 | 20 |
| OUTPUT RETURN LOSS (Min) | 5-10 MHz | 20 | 21 | 20 | 21 | 20 | 22 |
| | 10-50 MHz | 20 | 22 | 20 | 21 | 20 | 22 |
| | 50-200 MHz | 20 | 22 | 20 | 22 | 20 | 22 |
| | 200-550 MHz | 20 | 22 | 20 | 22 | 20 | 22 |
| | 550-750 MHz | 20 | 22 | 20 | 22 | 20 | 22 |
| | 750-860 MHz | 20 | 22 | 18 | 20 | 18 | 22 |
| | 860-1000 MHz | 18 | 22 | 18 | 20 | 18 | 20 |
| RFI (Min) | 5-1000 MHz | 100 | 110 | 100 | 110 | 100 | 110 |

NOTES:
* Test port loss is measured from the common port.
** Device to device isolation > 85 dB.



Triple 2-Way
(front & rear views)

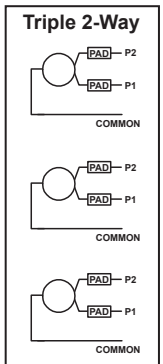
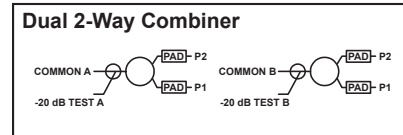
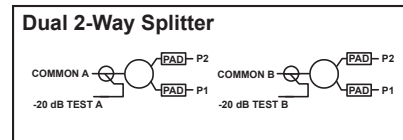


Dual 2-Way
(front & rear views)

Ordering Information

| Part Number | Description |
|-------------|--|
| MN2-2TSPF | Dual 2-Way Splitter: 20 dB Front Test Port, Pads, F Connectors |
| MN2-2TSPB | Dual 2-Way Splitter: 20 dB Front Test Port, Pads, BNC Connectors |
| MN2-2TCPF | Dual 2-Way Combiner: 20 dB Front Test Port, Pads, F Connectors |
| MN2-2TCPB | Dual 2-Way Combiner: 20 dB Front Test Port, Pads, BNC Connectors |
| MN2-3PF | Three 2-Way Splitter/Combiners in One Module: Pads, F Connectors |
| MN2-3PB | Three 2-Way Splitter/Combiners in One Module: Pads, BNC Connectors |

Functional Schematics



RF Signal Management

Splitting/Combining Modules (cont'd):

4-Way Splitter/Combiner Module Specifications

| SPECIFICATIONS | | MN4SCF |
|--------------------------|--------------|-------------|
| MEASUREMENT | FREQUENCY | QA (dB) |
| IL & FLATNESS | 5-10 MHz | 7.6 +/- 0.3 |
| | 10-50 MHz | 7.3 +/- 0.3 |
| | 50-200 MHz | 7.3 +/- 0.4 |
| | 200-550 MHz | 7.8 +/- 0.5 |
| | 550-750 MHz | 8.3 +/- 0.6 |
| | 750-860 MHz | 8.5 +/- 0.7 |
| | 860-1000 MHz | 9.2 +/- 0.8 |
| STP LOSS ⁽¹⁾ | 5-10 MHz | 20 +/- 0.3 |
| | 10-50 MHz | 20 +/- 0.3 |
| | 50-200 MHz | 20 +/- 0.5 |
| | 200-550 MHz | 20 +/- 0.5 |
| | 550-750 MHz | 20 +/- 0.6 |
| | 750-860 MHz | 20 +/- 1.0 |
| | 860-1000 MHz | 20 +/- 1.0 |
| CTP LOSS ⁽¹⁾ | 5-10 MHz | 20 +/- 0.3 |
| | 10-50 MHz | 20 +/- 0.3 |
| | 50-200 MHz | 20 +/- 0.5 |
| | 200-550 MHz | 20 +/- 0.5 |
| | 550-750 MHz | 20 +/- 0.6 |
| | 750-860 MHz | 20 +/- 1.0 |
| | 860-1000 MHz | 20 +/- 1.0 |
| ISOLATION (Min) | 5-10 MHz | 28 |
| | 10-50 MHz | 28 |
| | 50-200 MHz | 28 |
| | 200-550 MHz | 28 |
| | 550-750 MHz | 28 |
| | 750-860 MHz | 28 |
| | 860-1000 MHz | 28 |
| INPUT RETURN LOSS (Min) | 5-10 MHz | 16 |
| | 10-50 MHz | 18 |
| | 50-200 MHz | 20 |
| | 200-550 MHz | 20 |
| | 550-750 MHz | 20 |
| | 750-860 MHz | 20 |
| | 860-1000 MHz | 18 |
| OUTPUT RETURN LOSS (Min) | 5-10 MHz | 20 |
| | 10-50 MHz | 20 |
| | 50-200 MHz | 20 |
| | 200-550 MHz | 20 |
| | 550-750 MHz | 20 |
| | 750-860 MHz | 20 |
| | 860-1000 MHz | 18 |
| RFI (Min) | 5-1000 MHz | 100 |

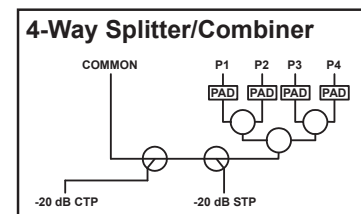
NOTE:
(1) Measured relative to common port.



Ordering Information

| Part Number | Description |
|-------------|--|
| MN4SCF | 4-Way Splitter/Combiner: 20 dB Front Test Port, Pads, F Connectors |

Functional Schematic



Splitting/Combining Modules (cont'd):

4-Way Combiner/Splitter Module Specifications

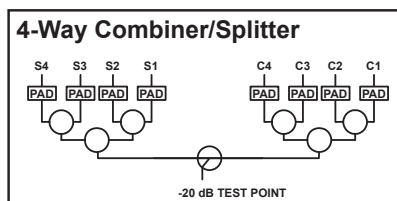
| SPECIFICATIONS | | MN4CSF / MN4CSB |
|--|--------------|-----------------|
| MEASUREMENT | FREQUENCY | QA (dB) |
| IL & FLATNESS (Equalized) (Max) | 5-10 MHz | 16.5 |
| | 10-50 MHz | 16.5 |
| | 50-200 MHz | 16.5 |
| | 200-550 MHz | 16.5 |
| | 550-750 MHz | 16.5 |
| | 750-860 MHz | 16.5 |
| TEST POINT LOSS (Relative to Outputs) & FLATNESS | 860-1000 MHz | 16.5 |
| | 5-10 MHz | 20 +/- 1.0 |
| | 10-50 MHz | 20 +/- 1.0 |
| | 50-200 MHz | 20 +/- 1.0 |
| | 200-550 MHz | 20 +/- 1.0 |
| | 550-750 MHz | 20 +/- 1.0 |
| ISOLATION (Min) PORT-PORT | 750-860 MHz | 20 +/- 1.0 |
| | 860-1000 MHz | 20 +/- 1.0 |
| | 5-10 MHz | 30 |
| | 10-50 MHz | 30 |
| | 50-200 MHz | 30 |
| | 200-550 MHz | 30 |
| IN/OUT PORT RETURN LOSS (Min) | 550-750 MHz | 30 |
| | 750-860 MHz | 30 |
| | 860-1000 MHz | 30 |
| | 5-10 MHz | 20 |
| | 10-50 MHz | 20 |
| | 50-200 MHz | 20 |
| TEST PORT RETURN LOSS (Min) | 200-550 MHz | 20 |
| | 550-750 MHz | 20 |
| | 750-860 MHz | 20 |
| | 860-1000 MHz | 20 |
| | 5-10 MHz | 16 |
| | 10-50 MHz | 16 |
| RFI (Min) | 50-200 MHz | 16 |
| | 200-550 MHz | 16 |
| | 550-750 MHz | 16 |
| | 750-860 MHz | 16 |
| | 860-1000 MHz | 16 |
| | 5-1000 MHz | 110 |



Ordering Information

| Part Number | Description |
|-------------|---|
| MN4CSF | 4x4 Service Group Combiner/Splitter, Test Point, Pads, F Connectors |
| MN4CSB | 4x4 Service Group Combiner/Splitter, Test Point, Pads, BNC Connectors |

Functional Schematic



RF Signal Management

Splitting/Combining Modules (cont'd):

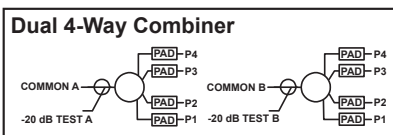
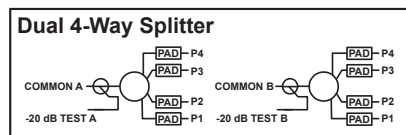
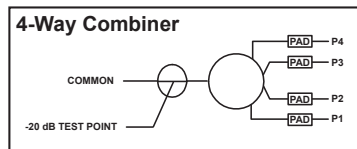
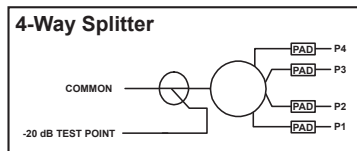
4-Way and Dual 4-Way Module Specifications (Splitters or Combiners)

| SPECIFICATIONS | | | | | | | | | |
|-------------------------------|--------------|-------------------|-------------|-------------------|-------------|-----------------------------|-------------|-----------------------------|-------------|
| MEASUREMENT | FREQUENCY | MN4TSPF / MN4TSPB | | MN4TCPF / MN4TCPB | | MN4-2TSPF ** / MN4-2TSPB ** | | MN4-2TCPF ** / MN4-2TCPB ** | |
| | | QA (dB) | TYP (dB) | QA (dB) | TYP (dB) | QA (dB) | TYP (dB) | QA (dB) | TYP (dB) |
| IL & FLATNESS | 5-10 MHz | 7.3 +/- 0.3 | 7.3 +/- 0.2 | 7.3 +/- 0.3 | 7.3 +/- 0.2 | 7.2 +/- 0.3 | 7.2 +/- 0.2 | 7.3 +/- 0.3 | 7.3 +/- 0.2 |
| | 10-50 MHz | 7.0 +/- 0.3 | 7.0 +/- 0.2 | 7.0 +/- 0.3 | 7.0 +/- 0.2 | 7.0 +/- 0.3 | 7.0 +/- 0.2 | 7.0 +/- 0.3 | 7.0 +/- 0.2 |
| | 50-200 MHz | 7.0 +/- 0.3 | 7.0 +/- 0.2 | 7.0 +/- 0.3 | 7.0 +/- 0.2 | 7.0 +/- 0.3 | 7.0 +/- 0.2 | 7.0 +/- 0.3 | 7.0 +/- 0.2 |
| | 200-550 MHz | 7.4 +/- 0.5 | 7.4 +/- 0.3 | 7.4 +/- 0.5 | 7.4 +/- 0.3 | 7.4 +/- 0.5 | 7.4 +/- 0.4 | 7.4 +/- 0.5 | 7.4 +/- 0.3 |
| | 550-750 MHz | 7.8 +/- 0.5 | 7.8 +/- 0.3 | 7.8 +/- 0.5 | 7.8 +/- 0.3 | 7.8 +/- 0.6 | 7.8 +/- 0.5 | 7.8 +/- 0.6 | 7.8 +/- 0.3 |
| | 750-860 MHz | 8.0 +/- 0.6 | 8.0 +/- 0.4 | 8.0 +/- 0.6 | 8.0 +/- 0.4 | 8.0 +/- 0.6 | 8.0 +/- 0.4 | 8.0 +/- 0.6 | 8.0 +/- 0.4 |
| TP LOSS & FLATNESS * | 860-1000 MHz | 8.6 +/- 0.8 | 8.6 +/- 0.5 | 8.6 +/- 0.8 | 8.6 +/- 0.5 | 8.6 +/- 0.8 | 8.6 +/- 0.5 | 8.6 +/- 0.8 | 8.6 +/- 0.5 |
| | 5-10 MHz | 20 +/- 0.3 | 20 +/- 0.2 | 20 +/- 0.3 | 20 +/- 0.2 | 20 +/- 0.4 | 20 +/- 0.3 | 20 +/- 0.4 | 20 +/- 0.3 |
| | 10-50 MHz | 20 +/- 0.3 | 20 +/- 0.2 | 20 +/- 0.3 | 20 +/- 0.2 | 20 +/- 0.4 | 20 +/- 0.3 | 20 +/- 0.4 | 20 +/- 0.3 |
| | 50-200 MHz | 20 +/- 0.5 | 20 +/- 0.3 | 20 +/- 0.5 | 20 +/- 0.3 | 20 +/- 0.5 | 20 +/- 0.3 | 20 +/- 0.5 | 20 +/- 0.3 |
| | 200-550 MHz | 20 +/- 0.5 | 20 +/- 0.3 | 20 +/- 0.5 | 20 +/- 0.3 | 20 +/- 0.5 | 20 +/- 0.3 | 20 +/- 0.5 | 20 +/- 0.3 |
| | 550-750 MHz | 20 +/- 0.8 | 20 +/- 0.5 | 20 +/- 0.8 | 20 +/- 0.5 | 20 +/- 0.8 | 20 +/- 0.5 | 20 +/- 0.8 | 20 +/- 0.5 |
| ISOLATION (Min) | 750-860 MHz | 20 +/- 1.0 | 20 +/- 0.8 | 20 +/- 1.0 | 20 +/- 0.8 | 20 +/- 1.0 | 20 +/- 0.8 | 20 +/- 1.0 | 20 +/- 0.8 |
| | 860-1000 MHz | 20 +/- 1.0 | 20 +/- 0.8 | 20 +/- 1.0 | 20 +/- 0.8 | 20 +/- 1.0 | 20 +/- 0.8 | 20 +/- 1.0 | 20 +/- 0.8 |
| | 5-10 MHz | 22 | 25 | 22 | 25 | 22 | 25 | 22 | 25 |
| | 10-50 MHz | 30 | 35 | 30 | 35 | 30 | 35 | 30 | 35 |
| | 50-200 MHz | 30 | 35 | 30 | 35 | 30 | 35 | 30 | 35 |
| | 200-550 MHz | 30 | 32 | 30 | 32 | 30 | 32 | 30 | 32 |
| COMMON PORT RETURN LOSS (Min) | 550-750 MHz | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| | 750-860 MHz | 28 | 30 | 28 | 30 | 28 | 30 | 28 | 30 |
| | 860-1000 MHz | 28 | 30 | 28 | 30 | 28 | 30 | 28 | 30 |
| | 5-10 MHz | 17 | 18 | 18 | 20 | 17 | 18 | 18 | 20 |
| | 10-50 MHz | 17 | 18 | 20 | 22 | 17 | 18 | 20 | 22 |
| | 50-200 MHz | 19 | 20 | 20 | 22 | 19 | 20 | 20 | 22 |
| PORT 1-4 RETURN LOSS (Min) | 200-550 MHz | 20 | 22 | 20 | 22 | 20 | 22 | 20 | 22 |
| | 550-750 MHz | 20 | 22 | 20 | 22 | 20 | 22 | 20 | 22 |
| | 750-860 MHz | 18 | 20 | 20 | 20 | 18 | 20 | 20 | 20 |
| | 860-1000 MHz | 18 | 20 | 18 | 20 | 18 | 20 | 18 | 20 |
| | 5-10 MHz | 18 | 20 | 18 | 20 | 18 | 20 | 18 | 20 |
| | 10-50 MHz | 20 | 22 | 19 | 20 | 20 | 22 | 19 | 20 |
| RFI (Min) | 50-200 MHz | 20 | 22 | 20 | 22 | 20 | 22 | 20 | 22 |
| | 200-550 MHz | 20 | 22 | 20 | 22 | 20 | 22 | 20 | 22 |
| | 550-750 MHz | 20 | 22 | 20 | 22 | 20 | 22 | 20 | 22 |
| | 750-860 MHz | 20 | 20 | 18 | 20 | 20 | 20 | 18 | 20 |
| | 860-1000 MHz | 18 | 20 | 18 | 20 | 18 | 20 | 18 | 20 |
| | 5-1000 MHz | 100 | 110 | 100 | 110 | 100 | 110 | 100 | 110 |

NOTES:
* Test port loss is measured from the common port.
** Device to device isolation > 85 dB.



Functional Schematics



Ordering Information

| Part Number | Description |
|-------------|---|
| MN4TSPF | 4-Way Splitter: 20 dB Front Test Port, Pads, F Connectors |
| MN4TSPB | 4-Way Splitter: 20 dB Front Test Port, Pads, BNC Connectors |
| MN4TCPF | 4-Way Combiner: 20 dB Front Test Port, Pads, F Connectors |
| MN4TCPB | 4-Way Combiner: 20 dB Front Test Port, Pads, BNC Connectors |
| MN4-2TSPF | 2- 4-Way Splitters in One Module: 2- 20 dB Front Test Ports, Pads, F Connectors |
| MN4-2TSPB | 2- 4-Way Splitters in One Module: 2- 20 dB Front Test Ports, Pads, BNC Connectors |
| MN4-2TCPF | 2- 4-Way Combiners in One Module: 2- 20 dB Front Test Ports, Pads, F Connectors |
| MN4-2TCPB | 2- 4-Way Combiners in One Module: 2- 20 dB Front Test Ports, Pads, BNC Connectors |

Splitting/Combining Modules (cont'd):

8-Way Module Specifications

| SPECIFICATIONS | | MN8TSPF-E / MN8TSPB-E | | MN8TCPF-E / MN8TCPB-E | |
|-------------------------------|--------------|-----------------------|--------------|-----------------------|--------------|
| MEASUREMENT | FREQUENCY | QA (dB) | TYP (dB) | QA (dB) | TYP (dB) |
| INSERTION LOSS & FLATNESS | 5-10 MHz | 12.2 +/- 0.4 | 12.2 +/- 0.2 | 12.2 +/- 0.4 | 12.2 +/- 0.2 |
| | 10-50 MHz | 12.2 +/- 0.3 | 12.2 +/- 0.2 | 12.2 +/- 0.3 | 12.2 +/- 0.2 |
| | 50-200 MHz | 12.2 +/- 0.5 | 12.2 +/- 0.3 | 12.2 +/- 0.5 | 12.2 +/- 0.3 |
| | 200-550 MHz | 12.2 +/- 0.7 | 12.2 +/- 0.3 | 12.2 +/- 0.7 | 12.2 +/- 0.3 |
| | 550-750 MHz | 12.2 +/- 0.7 | 12.2 +/- 0.5 | 12.2 +/- 0.7 | 12.2 +/- 0.5 |
| | 750-860 MHz | 12.2 +/- 1.0 | 12.2 +/- 0.5 | 12.2 +/- 1.0 | 12.2 +/- 0.5 |
| | 860-1000 MHz | 12.2 +/- 1.5 | 12.2 +/- 0.8 | 12.2 +/- 1.5 | 12.2 +/- 0.8 |
| TEST PORT LOSS & FLATNESS * | 5-10 MHz | 20 +/- 0.3 | 20 +/- 0.2 | 20 +/- 0.3 | 20 +/- 0.2 |
| | 10-50 MHz | 20 +/- 0.3 | 20 +/- 0.2 | 20 +/- 0.3 | 20 +/- 0.2 |
| | 50-200 MHz | 20 +/- 0.5 | 20 +/- 0.3 | 20 +/- 0.5 | 20 +/- 0.3 |
| | 200-550 MHz | 20 +/- 0.5 | 20 +/- 0.3 | 20 +/- 0.5 | 20 +/- 0.3 |
| | 550-750 MHz | 20 +/- 0.8 | 20 +/- 0.5 | 20 +/- 0.8 | 20 +/- 0.5 |
| | 750-860 MHz | 20 +/- 1.0 | 20 +/- 0.8 | 20 +/- 1.0 | 20 +/- 0.8 |
| | 860-1000 MHz | 20 +/- 1.0 | 20 +/- 0.8 | 20 +/- 1.0 | 20 +/- 0.8 |
| ISOLATION (Min) | 5-10 MHz | 26 | 28 | 26 | 28 |
| | 10-50 MHz | 30 | 35 | 30 | 35 |
| | 50-200 MHz | 30 | 32 | 30 | 32 |
| | 200-550 MHz | 30 | 32 | 30 | 32 |
| | 550-750 MHz | 30 | 32 | 30 | 32 |
| | 750-860 MHz | 28 | 30 | 28 | 30 |
| | 860-1000 MHz | 28 | 30 | 28 | 30 |
| COMMON PORT RETURN LOSS (Min) | 5-10 MHz | 18 | 20 | 18 | 20 |
| | 10-50 MHz | 18 | 20 | 18 | 20 |
| | 50-200 MHz | 18 | 20 | 18 | 20 |
| | 200-550 MHz | 18 | 20 | 18 | 20 |
| | 550-750 MHz | 17 | 18 | 17 | 18 |
| | 750-860 MHz | 17 | 18 | 17 | 18 |
| | 860-1000 MHz | 17 | 18 | 17 | 18 |
| PORT 1-8 RETURN LOSS (Min) | 5-10 MHz | 17 | 18 | 17 | 18 |
| | 10-50 MHz | 20 | 22 | 20 | 22 |
| | 50-200 MHz | 20 | 22 | 20 | 22 |
| | 200-550 MHz | 20 | 22 | 20 | 22 |
| | 550-750 MHz | 20 | 22 | 20 | 22 |
| | 750-860 MHz | 20 | 21 | 20 | 21 |
| | 860-1000 MHz | 18 | 21 | 18 | 21 |
| RFI (Min) | 5-1000 MHz | 100 | 110 | 100 | 110 |

NOTE:
* Test port loss is measured from the common port.

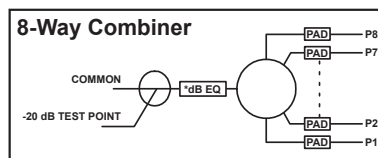
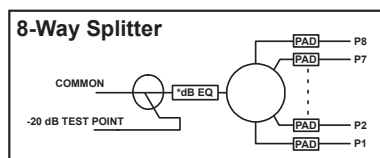


Ordering Information

| Part Number | Description |
|--------------|--|
| MN8TSPF-E | 8-Way Splitter: 20 dB Front Test Port, Pads, F Connectors, 1 dB Plug-in EQ |
| MN8TSPB-E | 8-Way Splitter: 20 dB Front Test Port, Pads, BNC Connectors, 1 dB Plug-in EQ |
| MN8TCPF-E | 8-Way Combiner: 20 dB Front Test Port, Pads, F Connectors, 1 dB Plug-in EQ |
| MN8TCPB-E | 8-Way Combiner: 20 dB Front Test Port, Pads, BNC Connectors, 1 dB Plug-in EQ |
| MN8TCPF-E-HI | 8-Way Combiner: 20 dB Front Test Port, 8 dB Pads, F Connectors, 2 dB EQ |

Functional Schematics

* = EQ dB value (1 or 2 dB)



RF Signal Management

Splitting/Combining Modules (cont'd):

16-Way Module Specifications

| SPECIFICATIONS | | MN16TSPF-E/MN16TSPB-E | | MN16TCPF-E/MN16TCPB-E | |
|-------------------------------|-------------|-----------------------|--------------|-----------------------|--------------|
| MEASUREMENT | FREQUENCY | QA (dB) | TYP (dB) | QA (dB) | TYP (dB) |
| INSERTION LOSS & FLATNESS | 5-10 MHz | 16.4 +/- 0.4 | 16.4 +/- 0.3 | 16.4 +/- 0.4 | 16.4 +/- 0.3 |
| | 10-50 MHz | 16.4 +/- 0.4 | 16.4 +/- 0.3 | 16.4 +/- 0.4 | 16.4 +/- 0.3 |
| | 50-200 MHz | 16.4 +/- 0.6 | 16.4 +/- 0.5 | 16.4 +/- 0.6 | 16.4 +/- 0.5 |
| | 200-550 MHz | 16.4 +/- 0.6 | 16.4 +/- 0.5 | 16.4 +/- 0.6 | 16.4 +/- 0.5 |
| | 550-750 MHz | 16.4 +/- 0.6 | 16.4 +/- 0.5 | 16.4 +/- 0.6 | 16.4 +/- 0.5 |
| | 750-860 MHz | 16.4 +/- 0.8 | 16.4 +/- 0.6 | 16.4 +/- 0.8 | 16.4 +/- 0.6 |
| TEST PORT LOSS & FLATNESS * | 5-10 MHz | 20 +/- 0.3 | 20 +/- 0.2 | 20 +/- 0.3 | 20 +/- 0.2 |
| | 10-50 MHz | 20 +/- 0.3 | 20 +/- 0.2 | 20 +/- 0.3 | 20 +/- 0.2 |
| | 50-200 MHz | 20 +/- 0.5 | 20 +/- 0.3 | 20 +/- 0.5 | 20 +/- 0.3 |
| | 200-550 MHz | 20 +/- 0.5 | 20 +/- 0.3 | 20 +/- 0.5 | 20 +/- 0.3 |
| | 550-750 MHz | 20 +/- 1.0 | 20 +/- 0.8 | 20 +/- 1.0 | 20 +/- 0.8 |
| | 750-860 MHz | 20 +/- 1.0 | 20 +/- 0.8 | 20 +/- 1.0 | 20 +/- 0.8 |
| ISOLATION (Min) | 5-10 MHz | 26 | 28 | 26 | 28 |
| | 10-50 MHz | 28 | 32 | 28 | 32 |
| | 50-200 MHz | 30 | 32 | 30 | 32 |
| | 200-550 MHz | 30 | 32 | 30 | 32 |
| | 550-750 MHz | 30 | 32 | 30 | 32 |
| | 750-860 MHz | 30 | 32 | 30 | 32 |
| COMMON PORT RETURN LOSS (Min) | 5-10 MHz | 20 | 22 | 20 | 22 |
| | 10-50 MHz | 20 | 22 | 20 | 22 |
| | 50-200 MHz | 18 | 19 | 18 | 19 |
| | 200-550 MHz | 18 | 19 | 18 | 19 |
| | 550-750 MHz | 18 | 19 | 18 | 19 |
| | 750-860 MHz | 18 | 19 | 18 | 19 |
| PORT 1-16 RETURN LOSS (Min) | 5-10 MHz | 18 | 19 | 18 | 19 |
| | 10-50 MHz | 20 | 22 | 20 | 22 |
| | 50-200 MHz | 20 | 22 | 20 | 22 |
| | 200-550 MHz | 20 | 22 | 20 | 22 |
| | 550-750 MHz | 20 | 22 | 20 | 22 |
| | 750-860 MHz | 20 | 22 | 20 | 22 |
| RFI (Min) | 5-1000 MHz | 100 | 110 | 100 | 110 |

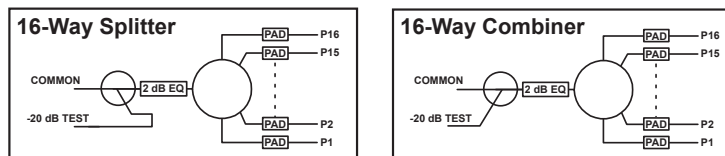
NOTE:
* Test port loss is measured from the common port.



Ordering Information

| Part Number | Description |
|-------------|---|
| MN16TSPF-E | 16-Way Splitter: 20 dB Front Test Port, Pads, F Connectors, 2 dB Plug-in EQ |
| MN16TSPB-E | 16-Way Splitter: 20 dB Front Test Port, Pads, BNC Connectors, 2 dB Plug-in EQ |
| MN16TCPF-E | 16-Way Combiner: 20 dB Front Test Port, Pads, F Connectors, 2 dB Plug-in EQ |
| MN16TCPB-E | 16-Way Combiner: 20 dB Front Test Port, Pads, BNC Connectors, 2 dB Plug-in EQ |

Functional Schematics



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.

