

# 2 Way-0° Power Splitter/Combiner

MSC-2-11+

## Typical Performance Data

| FREQ.<br>(MHz) | TOTAL LOSS <sup>1</sup><br>(dB) |      | AMP.<br>UNBAL.<br>(dB) | ISOLATION<br>(dB) | PHASE<br>UNBAL.<br>(deg.) | FREQ.<br>(MHz) | VSWR<br>(:1) |      |      |
|----------------|---------------------------------|------|------------------------|-------------------|---------------------------|----------------|--------------|------|------|
|                | S-1                             | S-2  |                        |                   |                           |                | S            | 1    | 2    |
| 5.0            | 3.55                            | 3.56 | 0.01                   | 18.23             | 0.03                      | 5.0            | 1.80         | 1.64 | 1.58 |
| 10.0           | 3.54                            | 3.56 | 0.02                   | 18.57             | 0.05                      | 10.0           | 1.80         | 1.65 | 1.58 |
| 15.0           | 3.54                            | 3.56 | 0.01                   | 18.60             | 0.04                      | 15.0           | 1.79         | 1.65 | 1.58 |
| 20.0           | 3.55                            | 3.56 | 0.01                   | 18.58             | 0.05                      | 20.0           | 1.79         | 1.65 | 1.58 |
| 25.0           | 3.55                            | 3.58 | 0.03                   | 18.58             | 0.09                      | 25.0           | 1.79         | 1.65 | 1.58 |
| 30.0           | 3.55                            | 3.57 | 0.02                   | 18.57             | 0.02                      | 30.0           | 1.79         | 1.65 | 1.58 |
| 35.0           | 3.56                            | 3.58 | 0.02                   | 18.57             | 0.02                      | 35.0           | 1.79         | 1.65 | 1.58 |
| 40.0           | 3.56                            | 3.57 | 0.01                   | 18.57             | 0.00                      | 40.0           | 1.79         | 1.65 | 1.58 |
| 45.0           | 3.54                            | 3.57 | 0.02                   | 18.57             | 0.04                      | 45.0           | 1.79         | 1.65 | 1.58 |
| 50.0           | 3.55                            | 3.57 | 0.02                   | 18.58             | 0.02                      | 50.0           | 1.79         | 1.65 | 1.59 |
| 75.0           | 3.58                            | 3.58 | 0.00                   | 18.62             | 0.09                      | 75.0           | 1.78         | 1.65 | 1.59 |
| 100.0          | 3.57                            | 3.59 | 0.01                   | 18.67             | 0.08                      | 100.0          | 1.77         | 1.65 | 1.59 |
| 125.0          | 3.58                            | 3.60 | 0.02                   | 18.72             | 0.03                      | 125.0          | 1.77         | 1.66 | 1.59 |
| 150.0          | 3.58                            | 3.59 | 0.01                   | 18.77             | 0.02                      | 150.0          | 1.76         | 1.66 | 1.60 |
| 175.0          | 3.58                            | 3.59 | 0.01                   | 18.82             | 0.00                      | 175.0          | 1.76         | 1.66 | 1.60 |
| 200.0          | 3.59                            | 3.60 | 0.01                   | 18.90             | 0.06                      | 200.0          | 1.75         | 1.66 | 1.60 |
| 225.0          | 3.60                            | 3.62 | 0.03                   | 18.98             | 0.06                      | 225.0          | 1.75         | 1.67 | 1.60 |
| 250.0          | 3.59                            | 3.60 | 0.01                   | 19.02             | 0.05                      | 250.0          | 1.74         | 1.67 | 1.60 |
| 275.0          | 3.58                            | 3.60 | 0.01                   | 19.08             | 0.02                      | 275.0          | 1.74         | 1.67 | 1.61 |
| 300.0          | 3.62                            | 3.63 | 0.01                   | 19.22             | 0.08                      | 300.0          | 1.73         | 1.67 | 1.61 |
| 350.0          | 3.60                            | 3.60 | 0.00                   | 19.36             | 0.03                      | 350.0          | 1.72         | 1.67 | 1.61 |
| 400.0          | 3.65                            | 3.65 | 0.01                   | 19.63             | 0.06                      | 400.0          | 1.71         | 1.67 | 1.61 |
| 450.0          | 3.60                            | 3.59 | 0.00                   | 19.80             | 0.13                      | 450.0          | 1.70         | 1.67 | 1.61 |
| 500.0          | 3.64                            | 3.64 | 0.00                   | 20.10             | 0.08                      | 500.0          | 1.68         | 1.67 | 1.61 |
| 550.0          | 3.61                            | 3.60 | 0.01                   | 20.38             | 0.02                      | 550.0          | 1.67         | 1.67 | 1.62 |
| 600.0          | 3.61                            | 3.61 | 0.01                   | 20.75             | 0.11                      | 600.0          | 1.65         | 1.67 | 1.61 |
| 650.0          | 3.60                            | 3.60 | 0.00                   | 21.13             | 0.01                      | 650.0          | 1.64         | 1.66 | 1.62 |
| 700.0          | 3.61                            | 3.59 | 0.02                   | 21.58             | 0.04                      | 700.0          | 1.62         | 1.66 | 1.62 |
| 800.0          | 3.64                            | 3.63 | 0.01                   | 22.81             | 0.08                      | 800.0          | 1.59         | 1.65 | 1.62 |
| 900.0          | 3.68                            | 3.64 | 0.04                   | 24.37             | 0.16                      | 900.0          | 1.55         | 1.64 | 1.62 |
| 1000.0         | 3.69                            | 3.66 | 0.03                   | 26.52             | 0.13                      | 1000.0         | 1.51         | 1.63 | 1.61 |
| 1100.0         | 3.62                            | 3.57 | 0.06                   | 29.63             | 0.22                      | 1100.0         | 1.46         | 1.62 | 1.61 |
| 1200.0         | 3.59                            | 3.53 | 0.05                   | 34.48             | 0.14                      | 1200.0         | 1.41         | 1.60 | 1.60 |
| 1300.0         | 3.59                            | 3.54 | 0.05                   | 36.84             | 0.24                      | 1300.0         | 1.36         | 1.58 | 1.59 |
| 1400.0         | 3.66                            | 3.58 | 0.07                   | 30.65             | 0.25                      | 1400.0         | 1.30         | 1.55 | 1.57 |
| 1500.0         | 3.65                            | 3.57 | 0.08                   | 25.93             | 0.30                      | 1500.0         | 1.24         | 1.52 | 1.55 |
| 1600.0         | 3.63                            | 3.55 | 0.08                   | 22.54             | 0.26                      | 1600.0         | 1.18         | 1.49 | 1.53 |
| 1700.0         | 3.59                            | 3.49 | 0.10                   | 19.88             | 0.41                      | 1700.0         | 1.12         | 1.45 | 1.49 |
| 1800.0         | 3.64                            | 3.54 | 0.11                   | 17.78             | 0.45                      | 1800.0         | 1.08         | 1.41 | 1.45 |
| 1900.0         | 3.71                            | 3.61 | 0.11                   | 15.99             | 0.44                      | 1900.0         | 1.11         | 1.37 | 1.41 |
| 2000.0         | 3.80                            | 3.68 | 0.12                   | 14.47             | 0.44                      | 2000.0         | 1.20         | 1.33 | 1.36 |

<sup>1</sup>Total Loss = Insertion Loss + 3dB Splitter Loss

REV. X2  
MSC-2-11+  
100624  
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