

# 2 Way-0° Power Splitter/Combiner

# TCP-2-23-75+

## Typical Performance Data

| FREQUENCY<br>(MHz) | TOTAL LOSS <sup>1</sup><br>(dB) |      | AMPLITUDE<br>UNBALANCE<br>(dB) | ISOLATION<br>(dB) | PHASE<br>UNBALANCE<br>(deg.) | FREQUENCY<br>(MHz) | VSWR<br>(:1) |      |      |
|--------------------|---------------------------------|------|--------------------------------|-------------------|------------------------------|--------------------|--------------|------|------|
|                    | S-1                             | S-2  |                                |                   |                              |                    | S            | 1    | 2    |
| 900.0              | 3.67                            | 3.71 | 0.04                           | 15.93             | 0.39                         | 900.0              | 1.97         | 1.45 | 1.46 |
| 920.0              | 3.67                            | 3.72 | 0.05                           | 16.06             | 0.42                         | 920.0              | 1.97         | 1.45 | 1.46 |
| 940.0              | 3.68                            | 3.72 | 0.05                           | 16.20             | 0.51                         | 940.0              | 1.97         | 1.46 | 1.46 |
| 960.0              | 3.66                            | 3.72 | 0.06                           | 16.31             | 0.50                         | 960.0              | 1.97         | 1.46 | 1.46 |
| 980.0              | 3.66                            | 3.73 | 0.06                           | 16.45             | 0.49                         | 980.0              | 1.96         | 1.47 | 1.46 |
| 1000.0             | 3.66                            | 3.73 | 0.07                           | 16.59             | 0.58                         | 1000.0             | 1.95         | 1.47 | 1.45 |
| 1010.0             | 3.66                            | 3.73 | 0.07                           | 16.67             | 0.62                         | 1010.0             | 1.95         | 1.48 | 1.45 |
| 1020.0             | 3.66                            | 3.74 | 0.08                           | 16.72             | 0.62                         | 1020.0             | 1.94         | 1.48 | 1.45 |
| 1030.0             | 3.65                            | 3.74 | 0.08                           | 16.82             | 0.60                         | 1030.0             | 1.94         | 1.48 | 1.45 |
| 1040.0             | 3.65                            | 3.74 | 0.08                           | 16.88             | 0.61                         | 1040.0             | 1.94         | 1.48 | 1.45 |
| 1050.0             | 3.66                            | 3.74 | 0.08                           | 16.92             | 0.60                         | 1050.0             | 1.94         | 1.48 | 1.45 |
| 1060.0             | 3.66                            | 3.74 | 0.09                           | 16.98             | 0.63                         | 1060.0             | 1.94         | 1.49 | 1.45 |
| 1070.0             | 3.65                            | 3.75 | 0.09                           | 17.06             | 0.72                         | 1070.0             | 1.94         | 1.49 | 1.45 |
| 1080.0             | 3.65                            | 3.75 | 0.09                           | 17.12             | 0.74                         | 1080.0             | 1.93         | 1.49 | 1.45 |
| 1090.0             | 3.65                            | 3.75 | 0.11                           | 17.18             | 0.74                         | 1090.0             | 1.92         | 1.49 | 1.44 |
| 1100.0             | 3.65                            | 3.76 | 0.11                           | 17.26             | 0.77                         | 1100.0             | 1.92         | 1.50 | 1.44 |
| 1110.0             | 3.64                            | 3.75 | 0.10                           | 17.33             | 0.81                         | 1110.0             | 1.92         | 1.50 | 1.44 |
| 1120.0             | 3.65                            | 3.75 | 0.10                           | 17.33             | 0.77                         | 1120.0             | 1.91         | 1.50 | 1.44 |
| 1130.0             | 3.65                            | 3.76 | 0.12                           | 17.41             | 0.80                         | 1130.0             | 1.91         | 1.50 | 1.44 |
| 1140.0             | 3.65                            | 3.77 | 0.12                           | 17.46             | 0.85                         | 1140.0             | 1.91         | 1.50 | 1.44 |
| 1150.0             | 3.64                            | 3.76 | 0.12                           | 17.50             | 0.85                         | 1150.0             | 1.91         | 1.50 | 1.44 |
| 1160.0             | 3.64                            | 3.77 | 0.13                           | 17.50             | 0.90                         | 1160.0             | 1.91         | 1.51 | 1.44 |
| 1170.0             | 3.63                            | 3.77 | 0.13                           | 17.53             | 0.86                         | 1170.0             | 1.91         | 1.51 | 1.44 |
| 1180.0             | 3.65                            | 3.77 | 0.13                           | 17.65             | 0.93                         | 1180.0             | 1.90         | 1.51 | 1.44 |
| 1190.0             | 3.64                            | 3.77 | 0.13                           | 17.74             | 0.97                         | 1190.0             | 1.90         | 1.51 | 1.43 |
| 1200.0             | 3.64                            | 3.77 | 0.13                           | 17.85             | 1.05                         | 1200.0             | 1.89         | 1.51 | 1.43 |
| 1210.0             | 3.63                            | 3.77 | 0.14                           | 17.90             | 1.07                         | 1210.0             | 1.88         | 1.51 | 1.43 |
| 1220.0             | 3.63                            | 3.77 | 0.14                           | 18.01             | 1.05                         | 1220.0             | 1.88         | 1.52 | 1.43 |
| 1230.0             | 3.63                            | 3.77 | 0.15                           | 18.02             | 1.03                         | 1230.0             | 1.89         | 1.52 | 1.43 |
| 1240.0             | 3.63                            | 3.77 | 0.14                           | 18.03             | 1.10                         | 1240.0             | 1.88         | 1.52 | 1.43 |
| 1250.0             | 3.63                            | 3.78 | 0.16                           | 18.08             | 1.12                         | 1250.0             | 1.89         | 1.52 | 1.43 |
| 1260.0             | 3.63                            | 3.78 | 0.16                           | 18.12             | 1.20                         | 1260.0             | 1.89         | 1.52 | 1.43 |
| 1270.0             | 3.62                            | 3.79 | 0.17                           | 18.14             | 1.23                         | 1270.0             | 1.88         | 1.52 | 1.43 |
| 1280.0             | 3.62                            | 3.78 | 0.16                           | 18.17             | 1.28                         | 1280.0             | 1.88         | 1.52 | 1.44 |
| 1290.0             | 3.62                            | 3.78 | 0.16                           | 18.23             | 1.33                         | 1290.0             | 1.87         | 1.53 | 1.44 |
| 1300.0             | 3.62                            | 3.79 | 0.17                           | 18.26             | 1.35                         | 1300.0             | 1.86         | 1.53 | 1.44 |
| 1310.0             | 3.62                            | 3.79 | 0.17                           | 18.32             | 1.41                         | 1310.0             | 1.85         | 1.53 | 1.44 |
| 1320.0             | 3.62                            | 3.79 | 0.17                           | 18.35             | 1.43                         | 1320.0             | 1.85         | 1.53 | 1.44 |
| 1330.0             | 3.62                            | 3.79 | 0.17                           | 18.45             | 1.45                         | 1330.0             | 1.85         | 1.53 | 1.44 |
| 1340.0             | 3.61                            | 3.79 | 0.18                           | 18.49             | 1.47                         | 1340.0             | 1.85         | 1.53 | 1.44 |
| 1350.0             | 3.61                            | 3.79 | 0.18                           | 18.51             | 1.55                         | 1350.0             | 1.85         | 1.54 | 1.44 |
| 1360.0             | 3.60                            | 3.79 | 0.19                           | 18.58             | 1.55                         | 1360.0             | 1.85         | 1.54 | 1.45 |
| 1370.0             | 3.61                            | 3.79 | 0.18                           | 18.54             | 1.65                         | 1370.0             | 1.84         | 1.54 | 1.45 |
| 1380.0             | 3.61                            | 3.79 | 0.18                           | 18.59             | 1.66                         | 1380.0             | 1.84         | 1.54 | 1.46 |
| 1390.0             | 3.61                            | 3.79 | 0.17                           | 18.63             | 1.72                         | 1390.0             | 1.83         | 1.54 | 1.46 |
| 1400.0             | 3.60                            | 3.79 | 0.19                           | 18.68             | 1.78                         | 1400.0             | 1.82         | 1.55 | 1.46 |
| 1500.0             | 3.60                            | 3.80 | 0.20                           | 18.91             | 2.16                         | 1500.0             | 1.80         | 1.56 | 1.51 |
| 1600.0             | 3.61                            | 3.80 | 0.19                           | 18.62             | 2.57                         | 1600.0             | 1.78         | 1.58 | 1.59 |
| 1700.0             | 3.60                            | 3.78 | 0.19                           | 18.85             | 2.90                         | 1700.0             | 1.77         | 1.58 | 1.66 |
| 1800.0             | 3.58                            | 3.77 | 0.19                           | 18.42             | 3.25                         | 1800.0             | 1.76         | 1.61 | 1.74 |
| 1900.0             | 3.59                            | 3.78 | 0.19                           | 18.32             | 3.36                         | 1900.0             | 1.77         | 1.64 | 1.79 |
| 2000.0             | 3.63                            | 3.85 | 0.21                           | 18.49             | 3.33                         | 2000.0             | 1.79         | 1.64 | 1.77 |
| 2100.0             | 3.68                            | 3.94 | 0.26                           | 18.60             | 3.67                         | 2100.0             | 1.82         | 1.65 | 1.74 |
| 2200.0             | 3.73                            | 4.10 | 0.36                           | 18.79             | 3.70                         | 2200.0             | 1.89         | 1.66 | 1.71 |
| 2300.0             | 3.82                            | 4.29 | 0.46                           | 18.48             | 4.27                         | 2300.0             | 2.01         | 1.73 | 1.73 |

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

