

## SP4T Switch

## U2C-1SP4T-852H

## Typical Performance Data

Test Conditions: @ Temperature = -10°C, Pin = 8 dBm.

| Freq.<br>(MHz) | Insertion Loss<br>(dB) |        |        |        |
|----------------|------------------------|--------|--------|--------|
|                | COM-J1                 | COM-J2 | COM-J3 | COM-J4 |
| 10             | -1.89                  | -1.89  | -1.89  | -1.88  |
| 250            | -2.09                  | -2.09  | -2.09  | -2.08  |
| 500            | -2.19                  | -2.19  | -2.19  | -2.18  |
| 750            | -2.30                  | -2.30  | -2.30  | -2.29  |
| 1000           | -2.40                  | -2.41  | -2.41  | -2.40  |
| 1250           | -2.48                  | -2.48  | -2.48  | -2.47  |
| 1500           | -2.52                  | -2.52  | -2.52  | -2.51  |
| 1750           | -2.53                  | -2.54  | -2.53  | -2.53  |
| 2000           | -2.54                  | -2.55  | -2.53  | -2.54  |
| 2250           | -2.57                  | -2.59  | -2.57  | -2.57  |
| 2500           | -2.65                  | -2.68  | -2.65  | -2.65  |
| 2750           | -2.75                  | -2.78  | -2.75  | -2.75  |
| 3000           | -2.84                  | -2.87  | -2.84  | -2.84  |
| 3250           | -2.90                  | -2.93  | -2.91  | -2.91  |
| 3500           | -2.95                  | -2.98  | -2.96  | -2.96  |
| 3750           | -3.02                  | -3.04  | -3.03  | -3.03  |
| 4000           | -3.11                  | -3.14  | -3.12  | -3.13  |
| 4250           | -3.23                  | -3.26  | -3.23  | -3.24  |
| 4500           | -3.34                  | -3.36  | -3.34  | -3.36  |
| 4750           | -3.40                  | -3.43  | -3.40  | -3.43  |
| 5000           | -3.41                  | -3.45  | -3.42  | -3.45  |
| 5250           | -3.43                  | -3.47  | -3.44  | -3.46  |
| 5500           | -3.49                  | -3.52  | -3.49  | -3.50  |
| 5750           | -3.61                  | -3.63  | -3.60  | -3.61  |
| 6000           | -3.74                  | -3.76  | -3.74  | -3.74  |
| 6250           | -3.82                  | -3.85  | -3.83  | -3.83  |
| 6500           | -3.84                  | -3.87  | -3.85  | -3.86  |
| 6750           | -3.85                  | -3.86  | -3.85  | -3.85  |
| 7000           | -3.89                  | -3.89  | -3.89  | -3.86  |
| 7250           | -4.03                  | -4.00  | -4.02  | -3.96  |
| 7500           | -4.16                  | -4.13  | -4.17  | -4.08  |
| 7750           | -4.34                  | -4.33  | -4.36  | -4.30  |
| 8000           | -4.54                  | -4.51  | -4.61  | -4.48  |
| 8250           | -4.88                  | -4.84  | -4.94  | -4.82  |
| 8500           | -4.98                  | -4.98  | -4.99  | -4.95  |
| 8750           | -5.20                  | -5.14  | -5.16  | -5.08  |
| 9000           | -5.31                  | -5.22  | -5.27  | -5.20  |
| 9250           | -5.37                  | -5.33  | -5.27  | -5.27  |
| 9500           | -5.89                  | -5.78  | -5.66  | -5.64  |
| 9750           | -6.07                  | -5.91  | -5.89  | -5.82  |
| 10000          | -5.98                  | -5.89  | -5.88  | -5.85  |

# SP4T Switch

## U2C-1SP4T-852H

### Typical Performance Data

Test Conditions: @ Temperature = -10°C, Pin = 8 dBm.

| Freq.<br>(MHz) | Return Loss, Active ports<br>(dB) |        |        |        |        | R. Loss, Internally terminated ports<br>(dB) |        |        |        |
|----------------|-----------------------------------|--------|--------|--------|--------|--|--------|--------|--------|
|                | COM                               | J1     | J2     | J3     | J4     | J1   | J2     | J3     | J4     |
| 10             | -15.81                            | -15.83 | -15.77 | -15.79 | -15.85 | -24.58                                       | -24.31 | -24.49 | -24.69 |
| 250            | -16.79                            | -16.79 | -16.66 | -16.70 | -16.78 | -24.90                                       | -24.49 | -24.65 | -25.03 |
| 500            | -18.93                            | -18.72 | -18.63 | -18.72 | -18.66 | -24.88                                       | -24.57 | -24.85 | -25.15 |
| 750            | -23.28                            | -22.54 | -22.37 | -22.58 | -22.12 | -24.92                                       | -24.97 | -25.02 | -25.22 |
| 1000           | -26.97                            | -28.85 | -28.50 | -29.12 | -28.75 | -25.24                                       | -25.05 | -25.07 | -25.40 |
| 1250           | -23.61                            | -24.27 | -24.55 | -24.96 | -25.66 | -25.75                                       | -24.85 | -25.57 | -25.54 |
| 1500           | -20.02                            | -19.88 | -19.91 | -20.33 | -20.70 | -26.36                                       | -25.22 | -26.05 | -26.06 |
| 1750           | -18.61                            | -17.63 | -17.52 | -18.16 | -18.21 | -26.92                                       | -25.64 | -26.80 | -26.83 |
| 2000           | -19.13                            | -16.86 | -16.71 | -17.61 | -17.21 | -27.55                                       | -26.57 | -27.96 | -27.39 |
| 2250           | -21.51                            | -17.33 | -16.90 | -17.96 | -17.47 | -28.56                                       | -27.36 | -29.49 | -28.36 |
| 2500           | -26.26                            | -18.79 | -18.03 | -19.05 | -18.69 | -29.73                                       | -28.09 | -30.56 | -28.93 |
| 2750           | -35.01                            | -21.11 | -20.26 | -20.89 | -20.73 | -31.26                                       | -28.99 | -32.01 | -30.01 |
| 3000           | -29.95                            | -24.39 | -23.90 | -23.82 | -24.09 | -33.42                                       | -29.78 | -33.85 | -31.21 |
| 3250           | -27.55                            | -29.93 | -31.76 | -29.45 | -29.42 | -35.50                                       | -30.23 | -34.31 | -32.91 |
| 3500           | -28.53                            | -35.05 | -34.14 | -36.43 | -34.87 | -35.67                                       | -29.62 | -34.18 | -33.24 |
| 3750           | -33.19                            | -26.54 | -25.33 | -26.04 | -27.43 | -34.13                                       | -29.75 | -31.82 | -33.64 |
| 4000           | -37.70                            | -22.04 | -21.70 | -22.53 | -22.93 | -32.86                                       | -29.58 | -32.40 | -33.58 |
| 4250           | -28.06                            | -19.52 | -20.02 | -20.49 | -20.53 | -31.18                                       | -29.84 | -31.91 | -34.44 |
| 4500           | -23.55                            | -18.22 | -19.15 | -19.22 | -18.90 | -28.85                                       | -29.58 | -31.25 | -32.72 |
| 4750           | -22.65                            | -18.57 | -19.18 | -19.16 | -18.42 | -27.34                                       | -29.01 | -29.43 | -31.13 |
| 5000           | -23.40                            | -20.64 | -20.53 | -20.18 | -19.65 | -26.05                                       | -28.18 | -28.54 | -29.21 |
| 5250           | -23.20                            | -24.32 | -23.00 | -22.99 | -22.25 | -25.54                                       | -27.54 | -27.65 | -28.19 |
| 5500           | -21.60                            | -30.18 | -26.41 | -28.92 | -28.45 | -24.20                                       | -27.35 | -26.36 | -26.83 |
| 5750           | -20.08                            | -29.03 | -32.60 | -40.15 | -51.84 | -23.33                                       | -26.85 | -25.14 | -26.21 |
| 6000           | -19.42                            | -29.06 | -36.15 | -29.35 | -31.42 | -22.83                                       | -26.06 | -22.97 | -26.03 |
| 6250           | -20.84                            | -34.93 | -28.91 | -30.10 | -25.48 | -21.94                                       | -25.65 | -22.05 | -24.42 |
| 6500           | -26.36                            | -29.36 | -25.49 | -29.10 | -24.09 | -21.28                                       | -23.51 | -20.64 | -23.32 |
| 6750           | -28.63                            | -20.83 | -20.86 | -22.39 | -21.45 | -20.97                                       | -22.96 | -20.12 | -22.88 |
| 7000           | -21.56                            | -16.97 | -17.84 | -17.53 | -19.15 | -21.16                                       | -21.27 | -19.07 | -21.97 |
| 7250           | -15.77                            | -14.91 | -16.27 | -15.07 | -17.19 | -19.88                                       | -21.70 | -19.16 | -21.61 |
| 7500           | -15.03                            | -14.49 | -16.10 | -14.08 | -16.63 | -19.38                                       | -21.22 | -18.24 | -20.77 |
| 7750           | -16.38                            | -16.68 | -18.37 | -16.34 | -20.05 | -19.16                                       | -20.13 | -18.31 | -20.78 |
| 8000           | -13.95                            | -12.23 | -13.05 | -11.65 | -13.76 | -18.96                                       | -19.54 | -17.62 | -20.17 |
| 8250           | -11.36                            | -10.76 | -11.45 | -10.03 | -11.33 | -18.26                                       | -19.11 | -17.41 | -20.63 |
| 8500           | -12.91                            | -14.46 | -15.68 | -13.57 | -15.19 | -16.94                                       | -17.72 | -16.60 | -19.95 |
| 8750           | -11.38                            | -11.96 | -13.34 | -12.62 | -14.58 | -15.16                                       | -16.24 | -15.76 | -18.15 |
| 9000           | -12.19                            | -11.38 | -13.04 | -11.93 | -13.26 | -13.23                                       | -14.34 | -14.45 | -16.07 |
| 9250           | -15.24                            | -14.91 | -17.96 | -17.13 | -19.78 | -11.46                                       | -12.78 | -13.01 | -13.84 |
| 9500           | -9.83                             | -10.03 | -11.24 | -12.14 | -12.89 | -10.05                                       | -11.18 | -11.52 | -12.01 |
| 9750           | -11.22                            | -9.17  | -10.19 | -10.35 | -11.14 | -8.95  | -10.00 | -10.28 | -10.80 |
| 10000          | -39.57                            | -10.57 | -11.25 | -11.61 | -11.95 | -8.38  | -9.20  | -9.53  | -9.77  |

# SP4T Switch

## U2C-1SP4T-852H

### Typical Performance Data

Test Conditions: @ Temperature = -10°C, Pin = 8 dBm.

| Freq.<br>(MHz) | Isolation, Active states<br>(dB) |        |         |        | Isolation, Disconnected states<br>(dB) |        |        |        |
|----------------|----------------------------------|--------|---------|--------|--|--------|--------|--------|
|                | COM-1                            | COM-3  | J2-J3   | J3-J4  | COM-1                                  | COM-2  | COM-3  | COM-4  |
| 10             | -98.02                           | -94.55 | -95.12  | -98.25 | -73.80                                 | -99.05 | -99.17 | -98.46 |
| 250            | -94.29                           | -95.23 | -96.92  | -95.67 | -59.26                                 | -95.54 | -97.37 | -95.03 |
| 500            | -93.72                           | -92.64 | -94.62  | -96.33 | -53.95                                 | -96.97 | -96.93 | -99.52 |
| 750            | -96.08                           | -93.65 | -95.43  | -96.94 | -50.58                                 | -94.29 | -96.96 | -93.60 |
| 1000           | -93.80                           | -95.39 | -94.18  | -91.43 | -48.20                                 | -94.83 | -94.50 | -94.97 |
| 1250           | -92.91                           | -96.63 | -96.59  | -94.93 | -46.55                                 | -96.41 | -94.78 | -93.94 |
| 1500           | -94.56                           | -95.96 | -100.69 | -94.63 | -45.38                                 | -96.35 | -97.08 | -98.83 |
| 1750           | -93.91                           | -95.03 | -94.60  | -95.96 | -44.36                                 | -94.53 | -89.75 | -97.03 |
| 2000           | -93.53                           | -95.53 | -93.98  | -91.92 | -43.29                                 | -92.75 | -86.79 | -96.82 |
| 2250           | -93.00                           | -94.07 | -94.47  | -92.48 | -42.02                                 | -97.21 | -87.02 | -94.55 |
| 2500           | -95.39                           | -93.50 | -94.90  | -94.30 | -40.67                                 | -91.34 | -86.11 | -93.68 |
| 2750           | -91.50                           | -91.80 | -94.03  | -88.42 | -39.44                                 | -89.47 | -84.97 | -94.73 |
| 3000           | -89.52                           | -89.99 | -91.24  | -90.11 | -38.65                                 | -87.29 | -84.92 | -92.44 |
| 3250           | -84.93                           | -88.78 | -93.50  | -87.69 | -38.30                                 | -89.41 | -91.39 | -97.96 |
| 3500           | -85.74                           | -86.11 | -95.98  | -86.50 | -38.02                                 | -88.47 | -84.55 | -91.68 |
| 3750           | -82.81                           | -84.50 | -94.21  | -83.69 | -37.56                                 | -86.07 | -75.72 | -92.85 |
| 4000           | -82.67                           | -80.71 | -92.37  | -81.08 | -36.83                                 | -82.99 | -74.52 | -96.26 |
| 4250           | -80.12                           | -79.48 | -100.15 | -81.41 | -35.96                                 | -83.65 | -74.00 | -94.67 |
| 4500           | -78.20                           | -79.58 | -94.54  | -80.45 | -35.19                                 | -82.85 | -73.75 | -93.37 |
| 4750           | -76.21                           | -77.10 | -94.70  | -77.88 | -34.82                                 | -83.15 | -74.03 | -93.24 |
| 5000           | -74.94                           | -74.88 | -88.85  | -76.37 | -34.87                                 | -82.04 | -77.34 | -94.55 |
| 5250           | -72.73                           | -72.90 | -95.17  | -73.94 | -34.95                                 | -83.27 | -84.53 | -91.89 |
| 5500           | -71.05                           | -71.01 | -95.54  | -72.75 | -34.81                                 | -82.24 | -71.83 | -94.54 |
| 5750           | -68.89                           | -68.99 | -92.96  | -70.96 | -34.37                                 | -84.60 | -68.26 | -92.49 |
| 6000           | -67.22                           | -67.13 | -90.84  | -69.26 | -33.78                                 | -85.97 | -67.30 | -91.59 |
| 6250           | -65.09                           | -64.98 | -92.50  | -67.09 | -33.37                                 | -84.59 | -67.00 | -97.84 |
| 6500           | -63.16                           | -63.12 | -88.12  | -65.17 | -33.26                                 | -80.53 | -67.92 | -94.78 |
| 6750           | -61.71                           | -61.54 | -88.73  | -62.86 | -33.27                                 | -75.30 | -69.89 | -93.40 |
| 7000           | -60.51                           | -60.51 | -87.78  | -61.10 | -33.13                                 | -71.26 | -74.02 | -90.17 |
| 7250           | -59.95                           | -59.86 | -82.96  | -60.04 | -32.68                                 | -68.35 | -67.04 | -95.69 |
| 7500           | -60.19                           | -60.03 | -92.70  | -59.64 | -31.98                                 | -65.61 | -62.29 | -92.14 |
| 7750           | -60.97                           | -60.94 | -88.57  | -60.09 | -30.97                                 | -63.30 | -60.71 | -92.33 |
| 8000           | -61.41                           | -61.55 | -83.21  | -60.27 | -30.84                                 | -62.43 | -62.36 | -91.53 |
| 8250           | -61.28                           | -61.57 | -81.30  | -59.72 | -29.70                                 | -60.57 | -62.16 | -89.78 |
| 8500           | -60.23                           | -60.70 | -88.06  | -59.39 | -28.58                                 | -58.88 | -55.21 | -84.45 |
| 8750           | -58.93                           | -59.34 | -83.76  | -59.56 | -28.78                                 | -58.52 | -55.69 | -84.71 |
| 9000           | -57.68                           | -57.92 | -81.54  | -58.51 | -27.95                                 | -57.04 | -56.84 | -85.71 |
| 9250           | -56.53                           | -56.74 | -73.61  | -56.32 | -27.07                                 | -55.58 | -52.53 | -79.99 |
| 9500           | -56.16                           | -55.95 | -75.97  | -55.09 | -27.85                                 | -55.56 | -51.37 | -79.06 |
| 9750           | -55.54                           | -55.19 | -81.12  | -54.03 | -27.94                                 | -55.10 | -51.94 | -79.19 |
| 10000          | -54.19                           | -54.12 | -76.32  | -52.39 | -27.27                                 | -53.78 | -52.86 | -75.65 |

## SP4T Switch

## U2C-1SP4T-852H

## Typical Performance Data

Test Conditions: @ Temperature = +25°C, Pin = 8 dBm.

| Freq.<br>(MHz) | Insertion Loss<br>(dB) |        |        |        |
|----------------|------------------------|--------|--------|--------|
|                | COM-J1                 | COM-J2 | COM-J3 | COM-J4 |
| 10             | -2.05                  | -2.05  | -2.05  | -2.04  |
| 250            | -2.27                  | -2.27  | -2.28  | -2.27  |
| 500            | -2.39                  | -2.40  | -2.40  | -2.39  |
| 750            | -2.52                  | -2.52  | -2.52  | -2.51  |
| 1000           | -2.63                  | -2.64  | -2.64  | -2.63  |
| 1250           | -2.72                  | -2.72  | -2.72  | -2.71  |
| 1500           | -2.75                  | -2.75  | -2.76  | -2.75  |
| 1750           | -2.76                  | -2.77  | -2.77  | -2.76  |
| 2000           | -2.77                  | -2.78  | -2.77  | -2.78  |
| 2250           | -2.81                  | -2.83  | -2.81  | -2.82  |
| 2500           | -2.90                  | -2.92  | -2.89  | -2.90  |
| 2750           | -3.00                  | -3.03  | -3.00  | -3.01  |
| 3000           | -3.10                  | -3.12  | -3.11  | -3.11  |
| 3250           | -3.16                  | -3.18  | -3.18  | -3.18  |
| 3500           | -3.22                  | -3.24  | -3.23  | -3.24  |
| 3750           | -3.28                  | -3.31  | -3.30  | -3.31  |
| 4000           | -3.39                  | -3.41  | -3.40  | -3.41  |
| 4250           | -3.51                  | -3.54  | -3.53  | -3.53  |
| 4500           | -3.62                  | -3.65  | -3.63  | -3.64  |
| 4750           | -3.67                  | -3.71  | -3.68  | -3.71  |
| 5000           | -3.69                  | -3.72  | -3.70  | -3.73  |
| 5250           | -3.71                  | -3.74  | -3.72  | -3.74  |
| 5500           | -3.79                  | -3.81  | -3.80  | -3.81  |
| 5750           | -3.92                  | -3.94  | -3.94  | -3.94  |
| 6000           | -4.06                  | -4.08  | -4.08  | -4.08  |
| 6250           | -4.15                  | -4.16  | -4.17  | -4.18  |
| 6500           | -4.16                  | -4.19  | -4.19  | -4.20  |
| 6750           | -4.17                  | -4.19  | -4.20  | -4.19  |
| 7000           | -4.24                  | -4.23  | -4.26  | -4.21  |
| 7250           | -4.37                  | -4.34  | -4.37  | -4.31  |
| 7500           | -4.52                  | -4.49  | -4.51  | -4.45  |
| 7750           | -4.71                  | -4.69  | -4.72  | -4.68  |
| 8000           | -4.94                  | -4.88  | -4.96  | -4.87  |
| 8250           | -5.27                  | -5.20  | -5.29  | -5.20  |
| 8500           | -5.41                  | -5.39  | -5.42  | -5.37  |
| 8750           | -5.65                  | -5.58  | -5.64  | -5.55  |
| 9000           | -5.77                  | -5.71  | -5.82  | -5.71  |
| 9250           | -5.89                  | -5.88  | -5.85  | -5.82  |
| 9500           | -6.45                  | -6.40  | -6.28  | -6.23  |
| 9750           | -6.61                  | -6.54  | -6.50  | -6.41  |
| 10000          | -6.55                  | -6.52  | -6.49  | -6.46  |

# SP4T Switch

## U2C-1SP4T-852H

### Typical Performance Data

Test Conditions: @ Temperature = +25°C, Pin = 8 dBm.

| Freq.<br>(MHz) | Return Loss, Active ports<br>(dB) |        |        |        |        | R. Loss, Internally terminated ports<br>(dB) |        |        |        |
|----------------|-----------------------------------|--------|--------|--------|--------|--|--------|--------|--------|
|                | COM                               | J1     | J2     | J3     | J4     | J1   | J2     | J3     | J4     |
| 10             | -15.12                            | -15.14 | -15.09 | -15.10 | -15.15 | -23.80                                       | -23.54 | -23.70 | -23.87 |
| 250            | -16.18                            | -16.15 | -16.04 | -16.08 | -16.12 | -24.24                                       | -23.90 | -24.07 | -24.31 |
| 500            | -18.38                            | -18.12 | -17.96 | -18.06 | -18.03 | -24.25                                       | -23.97 | -24.16 | -24.41 |
| 750            | -22.53                            | -21.90 | -21.55 | -21.87 | -21.52 | -24.28                                       | -23.95 | -24.24 | -24.40 |
| 1000           | -27.06                            | -27.40 | -26.85 | -27.89 | -27.37 | -24.54                                       | -24.12 | -24.54 | -24.61 |
| 1250           | -23.52                            | -23.75 | -23.95 | -24.52 | -24.97 | -25.07                                       | -24.35 | -24.92 | -24.84 |
| 1500           | -19.91                            | -19.47 | -19.53 | -19.99 | -20.21 | -25.63                                       | -24.71 | -25.39 | -25.25 |
| 1750           | -18.46                            | -17.24 | -17.14 | -17.77 | -17.70 | -26.13                                       | -25.04 | -25.97 | -25.63 |
| 2000           | -18.86                            | -16.49 | -16.23 | -17.07 | -16.80 | -26.82                                       | -25.47 | -26.68 | -26.22 |
| 2250           | -21.01                            | -16.87 | -16.49 | -17.54 | -17.10 | -27.57                                       | -26.04 | -27.58 | -26.88 |
| 2500           | -25.60                            | -18.34 | -17.84 | -18.99 | -18.47 | -28.62                                       | -26.66 | -28.80 | -27.65 |
| 2750           | -33.38                            | -20.86 | -20.32 | -21.34 | -20.97 | -29.84                                       | -27.40 | -30.14 | -28.53 |
| 3000           | -30.66                            | -24.82 | -24.59 | -24.70 | -24.90 | -31.05                                       | -28.14 | -31.65 | -29.60 |
| 3250           | -27.67                            | -31.71 | -33.36 | -29.78 | -30.75 | -32.43                                       | -28.85 | -33.08 | -30.89 |
| 3500           | -28.55                            | -33.31 | -33.40 | -33.05 | -32.75 | -33.19                                       | -29.46 | -33.76 | -31.99 |
| 3750           | -33.47                            | -25.67 | -25.09 | -26.53 | -26.43 | -32.89                                       | -29.73 | -33.75 | -32.56 |
| 4000           | -36.84                            | -21.51 | -21.37 | -22.00 | -22.55 | -31.77                                       | -29.65 | -32.28 | -33.14 |
| 4250           | -27.96                            | -19.24 | -19.47 | -19.57 | -20.18 | -30.28                                       | -29.23 | -30.49 | -32.70 |
| 4500           | -24.36                            | -18.38 | -18.85 | -18.69 | -18.97 | -28.66                                       | -28.47 | -28.77 | -31.72 |
| 4750           | -23.63                            | -18.91 | -19.33 | -19.24 | -18.87 | -27.33                                       | -27.75 | -27.30 | -30.52 |
| 5000           | -23.92                            | -20.86 | -20.91 | -21.39 | -20.14 | -26.33                                       | -27.08 | -26.17 | -29.15 |
| 5250           | -22.99                            | -24.58 | -23.57 | -25.71 | -23.48 | -25.45                                       | -26.53 | -25.25 | -27.49 |
| 5500           | -20.63                            | -29.27 | -27.25 | -31.22 | -30.31 | -24.57                                       | -25.99 | -24.51 | -26.82 |
| 5750           | -18.95                            | -29.48 | -31.39 | -30.35 | -40.22 | -23.66                                       | -25.55 | -23.65 | -25.87 |
| 6000           | -18.72                            | -29.26 | -35.79 | -29.87 | -30.02 | -22.55                                       | -24.72 | -22.67 | -25.03 |
| 6250           | -20.76                            | -35.43 | -32.97 | -34.65 | -26.90 | -21.68                                       | -23.87 | -21.84 | -23.90 |
| 6500           | -26.68                            | -28.61 | -25.44 | -27.90 | -25.27 | -21.19                                       | -22.92 | -21.18 | -22.92 |
| 6750           | -26.16                            | -20.77 | -20.27 | -20.89 | -22.02 | -20.52                                       | -22.19 | -20.55 | -22.28 |
| 7000           | -19.19                            | -16.72 | -17.14 | -16.87 | -18.97 | -20.27                                       | -21.73 | -20.21 | -21.78 |
| 7250           | -15.75                            | -14.77 | -15.82 | -15.19 | -17.18 | -19.69                                       | -21.54 | -19.98 | -21.21 |
| 7500           | -14.84                            | -14.42 | -15.67 | -14.90 | -16.86 | -19.03                                       | -20.82 | -19.43 | -21.08 |
| 7750           | -17.06                            | -15.64 | -17.38 | -16.25 | -18.72 | -18.72                                       | -20.39 | -18.91 | -20.76 |
| 8000           | -14.54                            | -11.99 | -13.16 | -12.18 | -13.73 | -18.40                                       | -19.99 | -18.54 | -20.75 |
| 8250           | -12.24                            | -10.97 | -11.98 | -10.52 | -11.66 | -17.86                                       | -19.53 | -17.97 | -20.61 |
| 8500           | -13.38                            | -14.35 | -15.93 | -13.28 | -15.07 | -16.73                                       | -18.41 | -17.04 | -19.97 |
| 8750           | -11.72                            | -12.50 | -14.07 | -12.45 | -14.73 | -15.18                                       | -16.66 | -15.60 | -18.15 |
| 9000           | -12.78                            | -12.15 | -13.39 | -11.55 | -13.61 | -13.36                                       | -14.54 | -13.98 | -16.00 |
| 9250           | -14.26                            | -15.57 | -17.67 | -16.14 | -20.63 | -11.74                                       | -12.69 | -12.36 | -13.93 |
| 9500           | -9.55                             | -10.53 | -11.12 | -11.78 | -13.26 | -10.51                                       | -11.05 | -11.01 | -12.19 |
| 9750           | -11.49                            | -10.08 | -10.28 | -10.60 | -11.80 | -9.57  | -9.90  | -10.06 | -10.96 |
| 10000          | -26.63                            | -11.57 | -11.29 | -11.87 | -12.69 | -9.12  | -9.20  | -9.46  | -10.26 |

# SP4T Switch

## U2C-1SP4T-852H

### Typical Performance Data

Test Conditions: @ Temperature = +25°C, Pin = 8 dBm.

| Freq.<br>(MHz) | Isolation, Active states<br>(dB) |        |        |        | Isolation, Disconnected states<br>(dB) |        |        |         |
|----------------|----------------------------------|--------|--------|--------|--|--------|--------|---------|
|                | COM-1                            | COM-3  | J2-J3  | J3-J4  | COM-1                                  | COM-2  | COM-3  | COM-4   |
| 10             | -98.77                           | -94.14 | -97.99 | -99.44 | -73.36                                 | -93.17 | -93.33 | -100.07 |
| 250            | -94.84                           | -95.35 | -95.25 | -95.49 | -59.61                                 | -95.64 | -98.51 | -93.76  |
| 500            | -95.65                           | -93.76 | -94.98 | -94.59 | -54.49                                 | -95.75 | -96.24 | -94.75  |
| 750            | -96.55                           | -98.66 | -96.03 | -96.89 | -51.13                                 | -94.18 | -98.07 | -97.61  |
| 1000           | -94.41                           | -98.39 | -95.38 | -99.29 | -48.81                                 | -93.29 | -95.36 | -95.82  |
| 1250           | -97.83                           | -98.54 | -92.86 | -93.94 | -47.20                                 | -93.51 | -94.19 | -93.11  |
| 1500           | -95.64                           | -93.53 | -95.77 | -95.14 | -46.04                                 | -95.28 | -94.51 | -97.04  |
| 1750           | -95.67                           | -90.92 | -94.44 | -98.65 | -45.00                                 | -90.83 | -94.47 | -95.69  |
| 2000           | -90.94                           | -94.36 | -97.63 | -93.53 | -43.90                                 | -94.23 | -89.50 | -94.76  |
| 2250           | -93.40                           | -92.66 | -92.87 | -91.81 | -42.63                                 | -91.98 | -86.80 | -97.80  |
| 2500           | -94.25                           | -89.77 | -95.88 | -90.34 | -41.27                                 | -92.93 | -86.24 | -95.44  |
| 2750           | -91.17                           | -93.48 | -98.80 | -87.45 | -40.07                                 | -89.55 | -84.85 | -94.15  |
| 3000           | -89.18                           | -94.10 | -92.07 | -88.64 | -39.30                                 | -87.99 | -85.58 | -94.81  |
| 3250           | -88.00                           | -89.91 | -97.48 | -86.66 | -38.93                                 | -88.52 | -94.22 | -95.12  |
| 3500           | -85.25                           | -87.31 | -95.30 | -85.79 | -38.66                                 | -89.10 | -85.94 | -96.52  |
| 3750           | -84.02                           | -85.34 | -95.78 | -84.68 | -38.18                                 | -86.21 | -76.98 | -94.04  |
| 4000           | -84.12                           | -83.30 | -94.00 | -83.10 | -37.43                                 | -83.25 | -75.35 | -98.44  |
| 4250           | -80.50                           | -81.92 | -92.87 | -82.37 | -36.53                                 | -81.74 | -74.11 | -94.33  |
| 4500           | -79.83                           | -79.74 | -95.89 | -80.94 | -35.77                                 | -82.67 | -73.89 | -92.00  |
| 4750           | -77.63                           | -78.12 | -91.07 | -78.47 | -35.45                                 | -81.64 | -74.86 | -95.31  |
| 5000           | -75.49                           | -75.66 | -90.11 | -75.55 | -35.52                                 | -83.44 | -77.10 | -92.34  |
| 5250           | -73.21                           | -73.32 | -94.39 | -74.43 | -35.60                                 | -83.35 | -84.05 | -94.36  |
| 5500           | -71.30                           | -71.62 | -91.12 | -72.97 | -35.43                                 | -82.13 | -72.73 | -94.85  |
| 5750           | -69.75                           | -69.79 | -94.12 | -71.28 | -34.98                                 | -84.36 | -69.05 | -95.82  |
| 6000           | -68.00                           | -67.73 | -98.49 | -69.52 | -34.42                                 | -88.16 | -68.11 | -94.63  |
| 6250           | -65.83                           | -65.86 | -94.84 | -67.67 | -34.03                                 | -87.15 | -67.70 | -93.72  |
| 6500           | -64.14                           | -64.25 | -91.59 | -65.72 | -33.94                                 | -81.51 | -68.58 | -93.63  |
| 6750           | -62.99                           | -62.58 | -88.65 | -63.73 | -33.93                                 | -76.37 | -70.59 | -90.41  |
| 7000           | -61.78                           | -61.74 | -87.56 | -62.06 | -33.74                                 | -72.98 | -74.35 | -89.27  |
| 7250           | -61.23                           | -61.16 | -87.69 | -61.10 | -33.27                                 | -69.54 | -68.01 | -95.61  |
| 7500           | -61.32                           | -61.18 | -92.21 | -60.64 | -32.59                                 | -67.17 | -63.44 | -95.45  |
| 7750           | -61.65                           | -61.84 | -92.36 | -60.93 | -31.65                                 | -64.49 | -61.60 | -89.01  |
| 8000           | -62.05                           | -62.12 | -84.31 | -60.79 | -31.38                                 | -63.12 | -62.88 | -93.90  |
| 8250           | -61.93                           | -62.19 | -82.75 | -60.17 | -30.29                                 | -61.26 | -62.57 | -92.36  |
| 8500           | -61.03                           | -61.35 | -89.95 | -59.84 | -29.25                                 | -59.67 | -56.22 | -86.37  |
| 8750           | -59.67                           | -59.98 | -88.14 | -59.90 | -29.35                                 | -59.11 | -56.42 | -84.73  |
| 9000           | -58.36                           | -58.70 | -81.21 | -58.91 | -28.60                                 | -57.66 | -57.57 | -89.14  |
| 9250           | -57.25                           | -57.54 | -74.34 | -56.63 | -27.76                                 | -56.15 | -53.27 | -79.75  |
| 9500           | -56.75                           | -56.76 | -78.08 | -55.50 | -28.56                                 | -56.36 | -52.22 | -79.74  |
| 9750           | -56.05                           | -56.02 | -82.07 | -54.58 | -28.60                                 | -55.86 | -52.62 | -80.29  |
| 10000          | -54.73                           | -54.80 | -77.01 | -52.75 | -27.87                                 | -54.44 | -53.63 | -77.15  |

## SP4T Switch

## U2C-1SP4T-852H

## Typical Performance Data

Test Conditions: @ Temperature = +60°C, Pin = 8 dBm.

| Freq.<br>(MHz) | Insertion Loss<br>(dB) |        |        |        |
|----------------|------------------------|--------|--------|--------|
|                | COM-J1                 | COM-J2 | COM-J3 | COM-J4 |
| 10             | -2.20                  | -2.21  | -2.21  | -2.20  |
| 250            | -2.45                  | -2.45  | -2.45  | -2.44  |
| 500            | -2.58                  | -2.59  | -2.59  | -2.58  |
| 750            | -2.72                  | -2.73  | -2.72  | -2.72  |
| 1000           | -2.85                  | -2.85  | -2.85  | -2.84  |
| 1250           | -2.93                  | -2.93  | -2.93  | -2.93  |
| 1500           | -2.96                  | -2.97  | -2.97  | -2.96  |
| 1750           | -2.97                  | -2.98  | -2.97  | -2.97  |
| 2000           | -2.98                  | -3.00  | -2.98  | -2.99  |
| 2250           | -3.02                  | -3.04  | -3.02  | -3.03  |
| 2500           | -3.11                  | -3.14  | -3.11  | -3.12  |
| 2750           | -3.22                  | -3.25  | -3.22  | -3.23  |
| 3000           | -3.32                  | -3.35  | -3.33  | -3.33  |
| 3250           | -3.39                  | -3.42  | -3.40  | -3.41  |
| 3500           | -3.44                  | -3.48  | -3.46  | -3.47  |
| 3750           | -3.52                  | -3.55  | -3.52  | -3.54  |
| 4000           | -3.63                  | -3.66  | -3.64  | -3.65  |
| 4250           | -3.76                  | -3.80  | -3.78  | -3.78  |
| 4500           | -3.87                  | -3.91  | -3.89  | -3.90  |
| 4750           | -3.92                  | -3.97  | -3.95  | -3.97  |
| 5000           | -3.93                  | -3.98  | -3.95  | -3.99  |
| 5250           | -3.95                  | -4.00  | -3.96  | -4.00  |
| 5500           | -4.04                  | -4.08  | -4.05  | -4.06  |
| 5750           | -4.20                  | -4.23  | -4.19  | -4.20  |
| 6000           | -4.35                  | -4.37  | -4.34  | -4.34  |
| 6250           | -4.43                  | -4.46  | -4.43  | -4.44  |
| 6500           | -4.44                  | -4.48  | -4.46  | -4.46  |
| 6750           | -4.46                  | -4.49  | -4.48  | -4.46  |
| 7000           | -4.54                  | -4.55  | -4.57  | -4.51  |
| 7250           | -4.69                  | -4.68  | -4.70  | -4.62  |
| 7500           | -4.85                  | -4.83  | -4.85  | -4.78  |
| 7750           | -5.06                  | -5.04  | -5.05  | -5.01  |
| 8000           | -5.31                  | -5.24  | -5.29  | -5.21  |
| 8250           | -5.63                  | -5.55  | -5.60  | -5.54  |
| 8500           | -5.79                  | -5.76  | -5.77  | -5.75  |
| 8750           | -6.02                  | -5.96  | -5.98  | -5.92  |
| 9000           | -6.17                  | -6.13  | -6.18  | -6.10  |
| 9250           | -6.36                  | -6.36  | -6.31  | -6.29  |
| 9500           | -6.98                  | -6.95  | -6.87  | -6.82  |
| 9750           | -7.17                  | -7.16  | -7.21  | -7.10  |
| 10000          | -7.07                  | -7.12  | -7.13  | -7.07  |

## NOTES:

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuits' applicable established test performance criteria and measurement instructions.
- C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at <https://www.minicircuits.com/terms/viewterm.html>



# SP4T Switch

## U2C-1SP4T-852H

### Typical Performance Data

Test Conditions: @ Temperature = +60°C, Pin = 8 dBm.

| Freq.<br>(MHz) | Return Loss, Active ports<br>(dB) |        |        |        |        | R. Loss, Internally terminated ports<br>(dB) |        |        |        |
|----------------|-----------------------------------|--------|--------|--------|--------|--|--------|--------|--------|
|                | COM                               | J1     | J2     | J3     | J4     | J1   | J2     | J3     | J4     |
| 10             | -14.50                            | -14.51 | -14.46 | -14.46 | -14.50 | -23.03                                       | -22.79 | -22.93 | -23.05 |
| 250            | -15.58                            | -15.58 | -15.48 | -15.50 | -15.55 | -23.61                                       | -23.31 | -23.43 | -23.65 |
| 500            | -17.82                            | -17.58 | -17.40 | -17.52 | -17.47 | -23.71                                       | -23.44 | -23.66 | -23.77 |
| 750            | -21.98                            | -21.24 | -20.86 | -21.17 | -20.82 | -23.62                                       | -23.32 | -23.68 | -23.64 |
| 1000           | -27.12                            | -26.04 | -25.48 | -26.24 | -25.61 | -23.80                                       | -23.36 | -23.87 | -23.67 |
| 1250           | -23.81                            | -23.02 | -22.96 | -23.46 | -23.53 | -24.28                                       | -23.49 | -24.09 | -23.81 |
| 1500           | -19.91                            | -18.97 | -18.88 | -19.29 | -19.33 | -24.69                                       | -23.71 | -24.42 | -24.13 |
| 1750           | -18.21                            | -16.81 | -16.64 | -17.09 | -17.01 | -25.05                                       | -23.95 | -24.77 | -24.43 |
| 2000           | -18.34                            | -16.08 | -15.84 | -16.37 | -16.23 | -25.62                                       | -24.32 | -25.25 | -24.98 |
| 2250           | -20.17                            | -16.53 | -16.22 | -16.89 | -16.62 | -26.28                                       | -24.91 | -25.92 | -25.62 |
| 2500           | -24.31                            | -18.13 | -17.72 | -18.56 | -18.03 | -27.20                                       | -25.55 | -26.98 | -26.54 |
| 2750           | -31.67                            | -20.89 | -20.42 | -21.26 | -20.58 | -28.41                                       | -26.35 | -28.25 | -27.53 |
| 3000           | -30.69                            | -25.17 | -24.93 | -24.89 | -24.51 | -29.43                                       | -27.24 | -29.80 | -28.75 |
| 3250           | -27.39                            | -33.02 | -34.30 | -29.58 | -31.07 | -30.52                                       | -27.92 | -31.73 | -29.84 |
| 3500           | -27.99                            | -31.81 | -32.35 | -33.98 | -34.14 | -31.36                                       | -28.69 | -33.39 | -30.78 |
| 3750           | -33.22                            | -25.01 | -24.58 | -27.37 | -26.08 | -31.61                                       | -28.85 | -34.63 | -30.99 |
| 4000           | -37.01                            | -21.07 | -21.09 | -21.70 | -21.99 | -30.90                                       | -29.12 | -32.52 | -31.68 |
| 4250           | -27.93                            | -19.08 | -19.24 | -18.82 | -19.56 | -29.95                                       | -28.77 | -30.08 | -31.10 |
| 4500           | -24.88                            | -18.48 | -18.66 | -17.85 | -18.54 | -28.82                                       | -28.15 | -27.99 | -30.55 |
| 4750           | -24.39                            | -19.02 | -19.23 | -18.51 | -18.49 | -27.43                                       | -27.47 | -26.30 | -29.89 |
| 5000           | -24.60                            | -20.90 | -20.90 | -20.92 | -19.61 | -26.35                                       | -26.75 | -24.98 | -28.92 |
| 5250           | -22.67                            | -24.56 | -23.72 | -25.82 | -22.70 | -25.31                                       | -26.09 | -23.73 | -27.19 |
| 5500           | -19.80                            | -28.70 | -27.62 | -29.79 | -28.19 | -24.58                                       | -25.26 | -22.94 | -26.66 |
| 5750           | -18.12                            | -29.06 | -30.17 | -27.97 | -40.24 | -23.54                                       | -24.54 | -22.16 | -25.44 |
| 6000           | -18.12                            | -29.17 | -32.78 | -30.18 | -32.67 | -22.42                                       | -23.53 | -21.69 | -24.32 |
| 6250           | -20.56                            | -35.55 | -36.42 | -50.51 | -28.77 | -21.34                                       | -22.67 | -21.20 | -23.51 |
| 6500           | -26.71                            | -28.30 | -25.70 | -25.36 | -25.42 | -20.63                                       | -21.87 | -20.61 | -22.48 |
| 6750           | -23.30                            | -20.22 | -19.73 | -19.07 | -21.05 | -19.81                                       | -21.20 | -20.09 | -21.73 |
| 7000           | -17.51                            | -16.34 | -16.65 | -15.57 | -17.71 | -19.35                                       | -20.93 | -19.52 | -21.27 |
| 7250           | -14.93                            | -14.51 | -15.24 | -14.13 | -16.22 | -18.90                                       | -20.55 | -19.49 | -20.88 |
| 7500           | -14.34                            | -14.18 | -15.22 | -14.12 | -15.86 | -18.29                                       | -20.05 | -19.22 | -20.60 |
| 7750           | -17.17                            | -14.61 | -16.36 | -15.20 | -17.02 | -17.79                                       | -19.90 | -18.98 | -20.22 |
| 8000           | -14.69                            | -11.54 | -12.97 | -12.14 | -13.45 | -17.56                                       | -19.88 | -18.84 | -20.57 |
| 8250           | -12.91                            | -10.89 | -12.32 | -11.08 | -11.90 | -16.97                                       | -19.46 | -18.51 | -20.35 |
| 8500           | -13.97                            | -13.76 | -15.92 | -13.92 | -15.15 | -15.94                                       | -18.56 | -17.74 | -19.70 |
| 8750           | -12.33                            | -12.56 | -14.69 | -13.74 | -15.74 | -14.60                                       | -16.88 | -16.30 | -18.03 |
| 9000           | -13.82                            | -12.45 | -14.00 | -12.44 | -14.50 | -12.91                                       | -14.73 | -14.47 | -15.88 |
| 9250           | -14.38                            | -15.27 | -17.45 | -15.91 | -19.45 | -11.54                                       | -12.77 | -12.69 | -13.72 |
| 9500           | -9.58                             | -10.66 | -11.30 | -11.57 | -12.77 | -10.51                                       | -11.12 | -11.10 | -12.11 |
| 9750           | -11.58                            | -10.55 | -10.36 | -10.22 | -11.31 | -9.79  | -9.92  | -10.06 | -10.82 |
| 10000          | -22.43                            | -12.43 | -11.28 | -11.71 | -12.62 | -9.65  | -9.18  | -9.42  | -10.20 |

**NOTES:**

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuits' applicable established test performance criteria and measurement instructions.
- C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at <https://www.minicircuits.com/terms/viewterm.html>





# SP4T Switch

## U2C-1SP4T-852H

### Typical Performance Data

Test Conditions: @ Temperature = +60°C, Pin = 8 dBm.

| Freq.<br>(MHz) | Isolation, Active states<br>(dB) |         |         |        | Isolation, Disconnected states<br>(dB) |        |        |         |
|----------------|----------------------------------|---------|---------|--------|--|--------|--------|---------|
|                | COM-1                            | COM-3   | J2-J3   | J3-J4  | COM-1                                  | COM-2  | COM-3  | COM-4   |
| 10             | -94.49                           | -100.71 | -97.95  | -96.29 | -72.07                                 | -98.18 | -95.50 | -97.71  |
| 250            | -96.59                           | -93.96  | -101.58 | -94.51 | -59.94                                 | -98.84 | -95.90 | -96.27  |
| 500            | -97.12                           | -94.26  | -97.91  | -99.38 | -54.97                                 | -95.16 | -94.70 | -95.63  |
| 750            | -95.67                           | -95.60  | -95.64  | -95.86 | -51.73                                 | -96.87 | -96.25 | -100.47 |
| 1000           | -97.43                           | -97.65  | -94.77  | -97.09 | -49.44                                 | -95.70 | -97.96 | -93.92  |
| 1250           | -96.90                           | -93.51  | -94.97  | -93.53 | -47.86                                 | -93.78 | -95.02 | -97.32  |
| 1500           | -93.64                           | -96.23  | -96.47  | -95.89 | -46.68                                 | -95.10 | -94.07 | -97.49  |
| 1750           | -93.18                           | -92.73  | -95.34  | -98.13 | -45.62                                 | -93.33 | -95.70 | -94.39  |
| 2000           | -91.73                           | -97.75  | -96.92  | -92.02 | -44.50                                 | -91.06 | -90.56 | -93.98  |
| 2250           | -94.48                           | -96.43  | -97.98  | -92.93 | -43.22                                 | -91.51 | -87.86 | -93.74  |
| 2500           | -93.06                           | -92.89  | -94.03  | -90.66 | -41.85                                 | -94.52 | -87.89 | -95.41  |
| 2750           | -96.34                           | -96.20  | -97.49  | -89.28 | -40.67                                 | -90.88 | -85.31 | -98.06  |
| 3000           | -90.40                           | -93.00  | -91.36  | -88.22 | -39.90                                 | -88.72 | -85.55 | -94.17  |
| 3250           | -89.48                           | -91.33  | -97.86  | -89.31 | -39.54                                 | -88.59 | -92.58 | -93.83  |
| 3500           | -85.09                           | -85.76  | -92.92  | -85.98 | -39.26                                 | -86.74 | -87.80 | -96.03  |
| 3750           | -83.13                           | -84.41  | -94.94  | -82.82 | -38.78                                 | -87.12 | -77.97 | -95.43  |
| 4000           | -84.18                           | -82.97  | -93.38  | -82.68 | -38.01                                 | -83.72 | -75.83 | -93.49  |
| 4250           | -80.79                           | -80.73  | -93.37  | -82.29 | -37.09                                 | -83.16 | -74.36 | -98.15  |
| 4500           | -79.04                           | -80.74  | -96.04  | -79.72 | -36.33                                 | -82.62 | -74.48 | -92.99  |
| 4750           | -77.49                           | -77.85  | -97.06  | -78.30 | -36.04                                 | -82.25 | -74.92 | -92.03  |
| 5000           | -76.63                           | -75.87  | -89.71  | -75.91 | -36.13                                 | -81.84 | -77.57 | -97.63  |
| 5250           | -73.67                           | -73.86  | -90.44  | -74.92 | -36.21                                 | -82.40 | -84.08 | -94.70  |
| 5500           | -72.07                           | -72.23  | -93.94  | -72.81 | -36.03                                 | -82.83 | -73.88 | -92.33  |
| 5750           | -70.17                           | -70.22  | -91.51  | -71.66 | -35.56                                 | -86.06 | -70.26 | -92.37  |
| 6000           | -68.48                           | -68.36  | -93.62  | -69.63 | -35.01                                 | -88.05 | -68.80 | -95.28  |
| 6250           | -66.71                           | -66.67  | -97.45  | -67.75 | -34.67                                 | -91.22 | -68.59 | -91.29  |
| 6500           | -65.21                           | -64.94  | -91.35  | -66.21 | -34.59                                 | -85.71 | -69.25 | -96.68  |
| 6750           | -63.77                           | -63.58  | -89.74  | -64.42 | -34.55                                 | -78.73 | -71.26 | -98.29  |
| 7000           | -62.61                           | -62.61  | -87.70  | -62.92 | -34.31                                 | -74.08 | -73.97 | -92.54  |
| 7250           | -62.28                           | -62.10  | -85.39  | -61.89 | -33.82                                 | -70.89 | -68.69 | -96.47  |
| 7500           | -62.31                           | -62.13  | -89.71  | -61.40 | -33.15                                 | -68.38 | -64.18 | -93.57  |
| 7750           | -62.72                           | -62.71  | -90.58  | -61.42 | -32.28                                 | -65.35 | -62.22 | -90.02  |
| 8000           | -62.46                           | -62.85  | -84.32  | -61.12 | -31.90                                 | -63.86 | -63.52 | -90.74  |
| 8250           | -62.49                           | -62.69  | -81.85  | -60.53 | -30.83                                 | -61.77 | -62.72 | -93.19  |
| 8500           | -61.42                           | -61.91  | -91.87  | -60.04 | -29.86                                 | -60.25 | -56.90 | -87.87  |
| 8750           | -60.31                           | -60.36  | -91.18  | -60.10 | -29.84                                 | -59.64 | -56.88 | -87.02  |
| 9000           | -58.96                           | -59.20  | -82.70  | -59.03 | -29.19                                 | -58.31 | -58.17 | -87.28  |
| 9250           | -57.82                           | -58.03  | -76.41  | -57.14 | -28.43                                 | -56.85 | -53.97 | -81.97  |
| 9500           | -57.29                           | -57.27  | -80.32  | -55.95 | -29.20                                 | -56.95 | -53.11 | -79.93  |
| 9750           | -56.67                           | -56.70  | -83.82  | -55.15 | -29.27                                 | -56.60 | -53.61 | -81.41  |
| 10000          | -55.30                           | -55.46  | -78.09  | -53.31 | -28.44                                 | -55.03 | -54.71 | -77.92  |

**NOTES:**

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuits' applicable established test performance criteria and measurement instructions.
- C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at <https://www.minicircuits.com/terms/viewterm.html>

