

## Typical Performance Data

| FREQ. | INSERTION LOSS |        |        | INPUT RETURN LOSS |        |        | OUTPUT RETURN LOSS |        |        |
|-------|----------------|--------|--------|-------------------|--------|--------|--------------------|--------|--------|
| (MHz) | (dB)           |        |        | (dB)              |        |        | (dB)               |        |        |
|       | @-40°C         | @+25°C | @+85°C | @-40°C            | @+25°C | @+85°C | @-40°C             | @+25°C | @+85°C |
| 1     | 79.93          | 79.60  | 79.89  | 0.00              | 0.00   | 0.00   | 0.00               | 0.00   | 0.01   |
| 3     | 69.88          | 70.10  | 69.80  | 0.00              | 0.00   | 0.00   | 0.00               | 0.00   | 0.00   |
| 6     | 63.93          | 63.94  | 64.02  | 0.00              | 0.00   | 0.00   | 0.00               | 0.00   | 0.00   |
| 10    | 59.67          | 59.59  | 59.50  | 0.00              | 0.00   | 0.00   | 0.00               | 0.00   | 0.00   |
| 16    | 55.63          | 55.53  | 55.60  | 0.01              | 0.00   | 0.01   | 0.00               | 0.00   | 0.00   |
| 24    | 52.34          | 52.33  | 52.34  | 0.01              | 0.01   | 0.01   | 0.00               | 0.00   | 0.00   |
| 30    | 50.70          | 50.65  | 50.66  | 0.01              | 0.01   | 0.01   | 0.00               | 0.01   | 0.01   |
| 43    | 48.45          | 48.42  | 48.43  | 0.01              | 0.02   | 0.02   | 0.01               | 0.01   | 0.01   |
| 73    | 47.62          | 47.56  | 47.54  | 0.02              | 0.03   | 0.04   | 0.02               | 0.02   | 0.03   |
| 85    | 48.81          | 48.80  | 48.77  | 0.03              | 0.04   | 0.05   | 0.02               | 0.03   | 0.03   |
| 96    | 50.97          | 50.92  | 50.91  | 0.04              | 0.05   | 0.06   | 0.03               | 0.04   | 0.04   |
| 104   | 53.36          | 53.37  | 53.41  | 0.05              | 0.06   | 0.07   | 0.03               | 0.05   | 0.05   |
| 112   | 56.93          | 56.95  | 57.01  | 0.06              | 0.08   | 0.09   | 0.04               | 0.05   | 0.06   |
| 120   | 62.05          | 62.17  | 62.33  | 0.07              | 0.09   | 0.10   | 0.05               | 0.06   | 0.07   |
| 126   | 67.43          | 67.68  | 67.82  | 0.08              | 0.10   | 0.11   | 0.05               | 0.07   | 0.08   |
| 132   | 71.88          | 72.18  | 72.77  | 0.09              | 0.11   | 0.12   | 0.06               | 0.08   | 0.09   |
| 139   | 67.73          | 67.13  | 66.90  | 0.10              | 0.13   | 0.14   | 0.07               | 0.09   | 0.10   |
| 145   | 60.09          | 59.67  | 59.23  | 0.11              | 0.14   | 0.16   | 0.07               | 0.10   | 0.11   |
| 151   | 53.44          | 53.06  | 52.69  | 0.12              | 0.16   | 0.17   | 0.08               | 0.11   | 0.12   |
| 159   | 46.29          | 46.02  | 45.74  | 0.14              | 0.18   | 0.20   | 0.09               | 0.12   | 0.14   |
| 164   | 42.56          | 42.33  | 42.08  | 0.16              | 0.20   | 0.22   | 0.11               | 0.14   | 0.16   |
| 170   | 38.58          | 38.38  | 38.16  | 0.18              | 0.22   | 0.24   | 0.12               | 0.15   | 0.17   |
| 181   | 32.26          | 32.14  | 31.97  | 0.22              | 0.26   | 0.29   | 0.16               | 0.19   | 0.22   |
| 184   | 30.71          | 30.60  | 30.44  | 0.24              | 0.28   | 0.31   | 0.17               | 0.21   | 0.23   |
| 190   | 27.76          | 27.67  | 27.54  | 0.27              | 0.32   | 0.35   | 0.19               | 0.23   | 0.27   |
| 198   | 24.08          | 24.04  | 23.93  | 0.32              | 0.38   | 0.41   | 0.24               | 0.29   | 0.32   |
| 206   | 20.65          | 20.64  | 20.56  | 0.40              | 0.46   | 0.50   | 0.31               | 0.36   | 0.40   |
| 215   | 17.02          | 17.04  | 16.99  | 0.53              | 0.60   | 0.65   | 0.43               | 0.49   | 0.54   |
| 224   | 13.59          | 13.64  | 13.63  | 0.75              | 0.84   | 0.90   | 0.64               | 0.71   | 0.77   |
| 232   | 10.74          | 10.80  | 10.82  | 1.08              | 1.18   | 1.26   | 0.95               | 1.04   | 1.12   |
| 241   | 7.80           | 7.87   | 7.91   | 1.73              | 1.85   | 1.95   | 1.58               | 1.70   | 1.79   |
| 251   | 5.02           | 5.10   | 5.16   | 3.02              | 3.21   | 3.35   | 2.86               | 3.03   | 3.16   |
| 259   | 3.31           | 3.38   | 3.46   | 4.72              | 5.00   | 5.18   | 4.54               | 4.79   | 4.96   |
| 260   | 3.14           | 3.21   | 3.28   | 4.98              | 5.28   | 5.47   | 4.80               | 5.07   | 5.24   |
| 266   | 2.23           | 2.30   | 2.37   | 6.83              | 7.24   | 7.49   | 6.64               | 7.01   | 7.23   |
| 274   | 1.42           | 1.49   | 1.57   | 10.10             | 10.77  | 11.16  | 9.87               | 10.46  | 10.81  |
| 288   | 0.75           | 0.85   | 0.92   | 19.15             | 21.29  | 22.73  | 18.71              | 20.31  | 21.19  |
| 291   | 0.69           | 0.78   | 0.86   | 22.26             | 25.40  | 27.63  | 21.59              | 23.56  | 24.41  |
| 296   | 0.61           | 0.71   | 0.79   | 30.34             | 36.74  | 33.37  | 27.94              | 28.47  | 26.92  |
| 300   | 0.57           | 0.68   | 0.76   | 39.29             | 30.41  | 26.72  | 31.48              | 26.90  | 24.42  |
| 330   | 0.49           | 0.60   | 0.68   | 18.29             | 17.11  | 16.17  | 17.85              | 16.65  | 15.74  |
| 360   | 0.44           | 0.53   | 0.60   | 17.34             | 16.76  | 16.01  | 16.88              | 16.26  | 15.55  |
| 390   | 0.38           | 0.45   | 0.51   | 18.68             | 18.57  | 17.95  | 18.15              | 17.96  | 17.37  |
| 430   | 0.31           | 0.37   | 0.42   | 22.32             | 23.07  | 22.80  | 21.66              | 22.20  | 21.97  |
| 500   | 0.24           | 0.31   | 0.35   | 36.82             | 38.01  | 35.75  | 37.43              | 48.00  | 42.74  |
| 645   | 0.23           | 0.32   | 0.37   | 23.25             | 21.77  | 20.57  | 23.19              | 21.72  | 20.49  |
| 745   | 0.24           | 0.33   | 0.39   | 21.00             | 19.74  | 18.56  | 20.59              | 19.34  | 18.19  |
| 805   | 0.24           | 0.34   | 0.41   | 20.31             | 19.14  | 17.88  | 19.86              | 18.69  | 17.46  |
| 880   | 0.25           | 0.35   | 0.42   | 19.98             | 18.80  | 17.45  | 19.33              | 18.19  | 16.89  |
| 945   | 0.25           | 0.36   | 0.43   | 19.95             | 18.65  | 17.27  | 19.17              | 17.95  | 16.63  |
| 1065  | 0.25           | 0.37   | 0.45   | 20.28             | 18.59  | 17.25  | 19.37              | 17.83  | 16.54  |
| 1145  | 0.25           | 0.38   | 0.46   | 20.60             | 18.67  | 17.34  | 19.70              | 17.93  | 16.64  |
| 1370  | 0.25           | 0.39   | 0.47   | 21.48             | 19.14  | 17.82  | 20.75              | 18.52  | 17.23  |
| 1555  | 0.25           | 0.40   | 0.48   | 22.20             | 19.94  | 18.61  | 21.69              | 19.47  | 18.18  |
| 1800  | 0.26           | 0.41   | 0.50   | 24.03             | 21.62  | 20.14  | 23.69              | 21.43  | 20.01  |
| 1835  | 0.25           | 0.40   | 0.50   | 24.45             | 21.96  | 20.46  | 24.06              | 21.80  | 20.35  |
| 1910  | 0.25           | 0.41   | 0.50   | 25.27             | 22.75  | 21.20  | 24.88              | 22.64  | 21.13  |
| 2040  | 0.26           | 0.42   | 0.52   | 26.69             | 24.39  | 22.66  | 26.59              | 24.47  | 22.77  |
| 2185  | 0.27           | 0.43   | 0.53   | 30.27             | 27.18  | 25.09  | 29.40              | 27.32  | 25.22  |
| 2200  | 0.26           | 0.42   | 0.53   | 30.80             | 27.60  | 25.45  | 29.69              | 27.68  | 25.54  |

**High Pass Filter****ZX75HP-260-S+****Typical Performance Data**

| FREQ.<br><br>(MHz) | GROUP DELAY |        |        |
|--------------------|-------------|--------|--------|
|                    | (nsec)      |        |        |
|                    | @-40°C      | @+25°C | @+85°C |
| 300                | 3.35        | 3.32   | 3.30   |
| 310                | 3.10        | 3.07   | 3.04   |
| 320                | 2.82        | 2.79   | 2.77   |
| 330                | 2.53        | 2.51   | 2.49   |
| 340                | 2.28        | 2.25   | 2.23   |
| 350                | 2.08        | 2.05   | 2.04   |
| 360                | 1.91        | 1.89   | 1.88   |
| 370                | 1.78        | 1.76   | 1.75   |
| 380                | 1.66        | 1.65   | 1.64   |
| 390                | 1.56        | 1.55   | 1.55   |
| 400                | 1.48        | 1.47   | 1.47   |
| 410                | 1.41        | 1.40   | 1.39   |
| 420                | 1.34        | 1.33   | 1.33   |
| 430                | 1.28        | 1.27   | 1.27   |
| 440                | 1.22        | 1.21   | 1.21   |
| 450                | 1.17        | 1.17   | 1.16   |
| 460                | 1.13        | 1.12   | 1.12   |
| 470                | 1.08        | 1.08   | 1.07   |
| 480                | 1.04        | 1.04   | 1.03   |
| 490                | 1.01        | 1.00   | 1.00   |
| 500                | 0.98        | 0.97   | 0.97   |
| 510                | 0.95        | 0.94   | 0.94   |
| 520                | 0.92        | 0.91   | 0.91   |
| 530                | 0.89        | 0.88   | 0.88   |
| 540                | 0.87        | 0.86   | 0.85   |
| 550                | 0.84        | 0.83   | 0.83   |
| 560                | 0.82        | 0.81   | 0.81   |
| 570                | 0.80        | 0.79   | 0.79   |
| 580                | 0.78        | 0.77   | 0.77   |
| 590                | 0.76        | 0.75   | 0.75   |
| 600                | 0.75        | 0.74   | 0.73   |
| 610                | 0.73        | 0.72   | 0.72   |
| 620                | 0.71        | 0.70   | 0.70   |
| 630                | 0.70        | 0.69   | 0.69   |
| 640                | 0.69        | 0.68   | 0.67   |
| 650                | 0.67        | 0.66   | 0.66   |
| 665                | 0.66        | 0.65   | 0.64   |
| 680                | 0.64        | 0.63   | 0.63   |
| 700                | 0.62        | 0.61   | 0.61   |
| 725                | 0.59        | 0.58   | 0.58   |
| 760                | 0.57        | 0.56   | 0.56   |
| 800                | 0.54        | 0.53   | 0.53   |
| 865                | 0.51        | 0.50   | 0.50   |
| 925                | 0.48        | 0.47   | 0.47   |
| 980                | 0.46        | 0.45   | 0.45   |
| 1030               | 0.45        | 0.44   | 0.44   |
| 1135               | 0.43        | 0.42   | 0.41   |
| 1295               | 0.40        | 0.39   | 0.39   |
| 1445               | 0.39        | 0.38   | 0.37   |
| 1520               | 0.38        | 0.37   | 0.37   |
| 1555               | 0.38        | 0.37   | 0.37   |
| 1710               | 0.37        | 0.36   | 0.36   |
| 1800               | 0.37        | 0.36   | 0.35   |
| 1900               | 0.36        | 0.35   | 0.35   |
| 1980               | 0.36        | 0.35   | 0.35   |
| 2025               | 0.35        | 0.34   | 0.34   |
| 2105               | 0.36        | 0.35   | 0.34   |
| 2170               | 0.35        | 0.34   | 0.34   |
| 2195               | 0.35        | 0.35   | 0.34   |
| 2200               | 0.35        | 0.34   | 0.34   |