

# Coaxial High Pass Filter

# VHF-2700+

## Typical Performance Data

| FREQ.<br>(MHz) | INSERTION LOSS<br>(dB) |          |           | INPUT RETURN LOSS<br>(dB) |          |           | OUTPUT RETURN LOSS<br>(dB) |          |           |
|----------------|------------------------|----------|-----------|---------------------------|----------|-----------|----------------------------|----------|-----------|
|                | @ -55° C               | @ +25° C | @ +100° C | @ -55° C                  | @ +25° C | @ +100° C | @ -55° C                   | @ +25° C | @ +100° C |
| 50             | 65.41                  | 66.90    | 66.76     | 0.07                      | 0.09     | 0.11      | 0.06                       | 0.09     | 0.10      |
| 500            | 53.61                  | 53.32    | 53.62     | 0.20                      | 0.27     | 0.32      | 0.19                       | 0.24     | 0.25      |
| 600            | 51.97                  | 52.21    | 52.10     | 0.22                      | 0.28     | 0.33      | 0.23                       | 0.26     | 0.32      |
| 700            | 50.84                  | 51.12    | 51.11     | 0.21                      | 0.30     | 0.36      | 0.20                       | 0.26     | 0.31      |
| 800            | 50.05                  | 50.39    | 50.35     | 0.24                      | 0.33     | 0.39      | 0.21                       | 0.27     | 0.34      |
| 900            | 49.79                  | 49.80    | 49.66     | 0.24                      | 0.30     | 0.40      | 0.24                       | 0.31     | 0.36      |
| 1000           | 49.46                  | 49.53    | 49.47     | 0.24                      | 0.35     | 0.41      | 0.27                       | 0.33     | 0.39      |
| 1200           | 50.14                  | 50.48    | 50.54     | 0.25                      | 0.37     | 0.45      | 0.29                       | 0.38     | 0.45      |
| 1400           | 60.97                  | 62.65    | 63.85     | 0.28                      | 0.42     | 0.51      | 0.32                       | 0.42     | 0.51      |
| 1500           | 52.77                  | 51.41    | 49.91     | 0.28                      | 0.43     | 0.55      | 0.30                       | 0.43     | 0.53      |
| 1600           | 42.47                  | 41.56    | 40.79     | 0.31                      | 0.47     | 0.59      | 0.36                       | 0.48     | 0.59      |
| 1800           | 29.79                  | 29.20    | 28.67     | 0.39                      | 0.57     | 0.70      | 0.43                       | 0.57     | 0.69      |
| 2000           | 20.18                  | 19.65    | 19.17     | 0.52                      | 0.73     | 0.88      | 0.59                       | 0.75     | 0.91      |
| 2150           | 14.01                  | 13.55    | 13.14     | 0.84                      | 1.07     | 1.28      | 0.86                       | 1.09     | 1.26      |
| 2200           | 12.18                  | 11.77    | 11.41     | 1.02                      | 1.27     | 1.49      | 1.04                       | 1.26     | 1.45      |
| 2350           | 7.39                   | 7.12     | 6.91      | 1.90                      | 2.26     | 2.59      | 1.90                       | 2.20     | 2.49      |
| 2400           | 6.13                   | 5.92     | 5.73      | 2.38                      | 2.78     | 3.14      | 2.37                       | 2.74     | 3.05      |
| 2500           | 4.06                   | 3.98     | 3.90      | 3.66                      | 4.13     | 4.62      | 3.60                       | 4.02     | 4.44      |
| 2600           | 2.68                   | 2.72     | 2.72      | 5.42                      | 5.97     | 6.50      | 5.31                       | 5.78     | 6.24      |
| 2650           | 2.16                   | 2.24     | 2.27      | 6.43                      | 6.99     | 7.58      | 6.30                       | 6.78     | 7.27      |
| 2800           | 1.23                   | 1.38     | 1.47      | 9.89                      | 10.49    | 11.15     | 9.63                       | 10.10    | 10.62     |
| 2900           | 0.91                   | 1.06     | 1.18      | 12.40                     | 13.09    | 13.82     | 12.03                      | 12.50    | 13.01     |
| 3000           | 0.73                   | 0.88     | 1.00      | 15.08                     | 15.92    | 16.74     | 14.62                      | 15.11    | 15.65     |
| 3200           | 0.54                   | 0.68     | 0.81      | 20.87                     | 22.12    | 23.22     | 19.28                      | 19.90    | 20.48     |
| 3400           | 0.44                   | 0.61     | 0.74      | 24.71                     | 24.94    | 24.73     | 22.18                      | 22.34    | 22.42     |
| 3500           | 0.43                   | 0.59     | 0.71      | 24.30                     | 23.73    | 23.34     | 22.26                      | 21.94    | 21.90     |
| 3600           | 0.39                   | 0.55     | 0.69      | 23.17                     | 22.41    | 22.08     | 21.66                      | 21.11    | 21.05     |
| 3800           | 0.38                   | 0.55     | 0.69      | 21.00                     | 20.39    | 20.57     | 20.54                      | 19.86    | 20.14     |
| 4000           | 0.36                   | 0.53     | 0.65      | 20.32                     | 20.02    | 20.39     | 20.10                      | 19.61    | 19.91     |
| 4200           | 0.34                   | 0.51     | 0.65      | 20.38                     | 20.51    | 21.03     | 20.37                      | 20.24    | 20.61     |
| 4400           | 0.32                   | 0.48     | 0.61      | 22.15                     | 22.51    | 23.40     | 22.17                      | 22.26    | 22.83     |
| 4500           | 0.30                   | 0.46     | 0.59      | 23.66                     | 24.19    | 25.17     | 23.51                      | 23.78    | 24.29     |
| 4600           | 0.30                   | 0.47     | 0.60      | 26.30                     | 27.05    | 28.14     | 26.09                      | 26.35    | 26.75     |
| 5000           | 0.28                   | 0.47     | 0.61      | 26.21                     | 26.47    | 27.13     | 27.59                      | 26.15    | 25.67     |
| 5200           | 0.33                   | 0.51     | 0.67      | 19.61                     | 19.84    | 20.34     | 20.01                      | 19.63    | 19.63     |
| 5400           | 0.38                   | 0.59     | 0.74      | 15.74                     | 15.79    | 16.21     | 16.01                      | 15.71    | 15.77     |
| 5500           | 0.43                   | 0.64     | 0.79      | 14.28                     | 14.28    | 14.66     | 14.50                      | 14.25    | 14.31     |
| 5600           | 0.48                   | 0.70     | 0.86      | 13.09                     | 13.05    | 13.35     | 13.24                      | 12.95    | 12.97     |
| 5700           | 0.57                   | 0.79     | 0.94      | 12.05                     | 11.91    | 12.13     | 12.15                      | 11.83    | 11.80     |
| 5800           | 0.64                   | 0.86     | 1.05      | 11.11                     | 10.92    | 11.05     | 11.22                      | 10.87    | 10.76     |
| 6000           | 0.79                   | 1.05     | 1.25      | 9.55                      | 9.30     | 9.34      | 9.62                       | 9.26     | 9.10      |
| 6200           | 1.00                   | 1.29     | 1.52      | 8.26                      | 7.98     | 7.96      | 8.27                       | 7.93     | 7.74      |
| 6400           | 1.25                   | 1.57     | 1.84      | 7.18                      | 6.92     | 6.89      | 7.19                       | 6.87     | 6.71      |
| 6500           | 1.37                   | 1.71     | 1.99      | 6.69                      | 6.46     | 6.43      | 6.70                       | 6.41     | 6.27      |
| 6600           | 1.50                   | 1.85     | 2.14      | 6.23                      | 6.03     | 6.00      | 6.26                       | 6.02     | 5.87      |
| 6800           | 1.83                   | 2.18     | 2.48      | 5.37                      | 5.29     | 5.29      | 5.43                       | 5.27     | 5.22      |
| 7000           | 2.17                   | 2.51     | 2.83      | 4.66                      | 4.68     | 4.73      | 4.71                       | 4.68     | 4.70      |
| 7200           | 2.51                   | 2.85     | 3.16      | 4.07                      | 4.15     | 4.25      | 4.14                       | 4.18     | 4.25      |
| 7400           | 2.90                   | 3.22     | 3.53      | 3.57                      | 3.71     | 3.81      | 3.62                       | 3.72     | 3.86      |
| 7500           | 3.10                   | 3.41     | 3.72      | 3.33                      | 3.50     | 3.61      | 3.41                       | 3.53     | 3.69      |
| 7600           | 3.29                   | 3.59     | 3.91      | 3.16                      | 3.32     | 3.44      | 3.23                       | 3.37     | 3.55      |
| 7800           | 3.68                   | 3.98     | 4.28      | 2.79                      | 2.96     | 3.09      | 2.89                       | 3.06     | 3.24      |
| 8000           | 4.09                   | 4.41     | 4.76      | 2.49                      | 2.65     | 2.76      | 2.64                       | 2.80     | 2.99      |
| 8100           | 4.30                   | 4.62     | 4.99      | 2.35                      | 2.51     | 2.58      | 2.54                       | 2.69     | 2.86      |

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