

# Coaxial High Pass Filter

# VHF-2275+

## 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             | 68.21                  | 76.73    | 73.47     | 0.07                      | 0.09     | 0.10      | 0.06                       | 0.06     | 0.09      |
| 55             | 75.86                  | 79.87    | 87.67     | 0.09                      | 0.11     | 0.13      | 0.06                       | 0.07     | 0.09      |
| 60             | 64.67                  | 67.84    | 67.02     | 0.05                      | 0.10     | 0.10      | 0.04                       | 0.08     | 0.10      |
| 65             | 64.30                  | 77.11    | 68.50     | 0.08                      | 0.11     | 0.12      | 0.07                       | 0.06     | 0.11      |
| 70             | 66.41                  | 74.59    | 66.11     | 0.07                      | 0.10     | 0.12      | 0.07                       | 0.11     | 0.13      |
| 75             | 66.88                  | 63.01    | 64.11     | 0.08                      | 0.12     | 0.11      | 0.07                       | 0.10     | 0.09      |
| 80             | 75.45                  | 69.26    | 69.80     | 0.08                      | 0.12     | 0.13      | 0.08                       | 0.12     | 0.10      |
| 85             | 64.52                  | 67.61    | 66.56     | 0.07                      | 0.12     | 0.13      | 0.06                       | 0.11     | 0.10      |
| 90             | 68.38                  | 62.97    | 66.29     | 0.10                      | 0.14     | 0.14      | 0.08                       | 0.12     | 0.13      |
| 95             | 62.88                  | 66.74    | 66.07     | 0.08                      | 0.14     | 0.13      | 0.05                       | 0.08     | 0.11      |
| 100            | 66.82                  | 65.96    | 69.45     | 0.10                      | 0.14     | 0.14      | 0.08                       | 0.11     | 0.12      |
| 110            | 69.37                  | 65.76    | 63.41     | 0.11                      | 0.15     | 0.14      | 0.07                       | 0.10     | 0.12      |
| 120            | 66.36                  | 66.61    | 62.88     | 0.12                      | 0.15     | 0.16      | 0.07                       | 0.11     | 0.11      |
| 130            | 64.72                  | 65.23    | 64.08     | 0.10                      | 0.15     | 0.15      | 0.10                       | 0.14     | 0.14      |
| 140            | 62.43                  | 63.86    | 65.00     | 0.11                      | 0.15     | 0.17      | 0.08                       | 0.12     | 0.14      |
| 150            | 66.42                  | 63.28    | 63.65     | 0.13                      | 0.18     | 0.18      | 0.11                       | 0.13     | 0.16      |
| 160            | 62.23                  | 64.53    | 62.96     | 0.13                      | 0.16     | 0.17      | 0.09                       | 0.10     | 0.14      |
| 170            | 59.86                  | 62.98    | 61.06     | 0.14                      | 0.19     | 0.19      | 0.10                       | 0.14     | 0.17      |
| 180            | 61.80                  | 61.50    | 64.79     | 0.13                      | 0.18     | 0.17      | 0.10                       | 0.13     | 0.16      |
| 190            | 60.94                  | 61.64    | 61.51     | 0.14                      | 0.17     | 0.19      | 0.09                       | 0.14     | 0.16      |
| 200            | 60.36                  | 61.71    | 61.09     | 0.12                      | 0.17     | 0.18      | 0.09                       | 0.13     | 0.14      |
| 300            | 58.07                  | 57.92    | 58.15     | 0.15                      | 0.22     | 0.23      | 0.15                       | 0.20     | 0.21      |
| 400            | 55.98                  | 55.83    | 55.59     | 0.17                      | 0.25     | 0.28      | 0.13                       | 0.17     | 0.21      |
| 500            | 54.49                  | 54.87    | 54.33     | 0.17                      | 0.24     | 0.30      | 0.15                       | 0.20     | 0.25      |
| 600            | 53.77                  | 53.52    | 53.64     | 0.20                      | 0.27     | 0.31      | 0.18                       | 0.21     | 0.28      |
| 700            | 52.80                  | 53.00    | 52.85     | 0.23                      | 0.31     | 0.35      | 0.19                       | 0.25     | 0.30      |
| 800            | 52.46                  | 52.50    | 52.41     | 0.24                      | 0.31     | 0.37      | 0.21                       | 0.28     | 0.34      |
| 900            | 52.57                  | 52.76    | 52.87     | 0.26                      | 0.35     | 0.41      | 0.23                       | 0.31     | 0.35      |
| 1000           | 53.29                  | 53.19    | 53.36     | 0.23                      | 0.34     | 0.40      | 0.23                       | 0.32     | 0.36      |
| 1100           | 54.38                  | 54.73    | 54.87     | 0.27                      | 0.37     | 0.45      | 0.24                       | 0.33     | 0.39      |
| 1200           | 58.12                  | 58.73    | 59.22     | 0.27                      | 0.38     | 0.46      | 0.27                       | 0.36     | 0.44      |
| 1300           | 70.87                  | 67.30    | 65.86     | 0.30                      | 0.43     | 0.51      | 0.29                       | 0.40     | 0.47      |
| 1400           | 52.72                  | 51.62    | 50.56     | 0.30                      | 0.45     | 0.55      | 0.29                       | 0.39     | 0.50      |
| 1500           | 43.60                  | 42.74    | 41.95     | 0.32                      | 0.47     | 0.60      | 0.33                       | 0.46     | 0.56      |
| 1600           | 36.70                  | 35.96    | 35.26     | 0.38                      | 0.54     | 0.68      | 0.38                       | 0.52     | 0.64      |
| 1700           | 30.57                  | 29.85    | 29.21     | 0.44                      | 0.63     | 0.77      | 0.42                       | 0.58     | 0.71      |
| 1770           | 26.49                  | 25.81    | 25.17     | 0.48                      | 0.67     | 0.85      | 0.47                       | 0.64     | 0.79      |
| 1980           | 15.01                  | 14.40    | 13.80     | 0.88                      | 1.19     | 1.45      | 0.86                       | 1.14     | 1.36      |
| 2150           | 7.10                   | 6.70     | 6.33      | 2.37                      | 2.90     | 3.41      | 2.29                       | 2.80     | 3.27      |
| 2275           | 3.33                   | 3.25     | 3.16      | 5.23                      | 6.02     | 6.79      | 5.15                       | 5.90     | 6.64      |
| 2450           | 1.28                   | 1.41     | 1.52      | 11.57                     | 12.31    | 13.14     | 11.63                      | 12.36    | 13.12     |
| 2580           | 0.87                   | 1.04     | 1.17      | 16.14                     | 16.77    | 17.47     | 16.30                      | 16.86    | 17.44     |
| 2640           | 0.75                   | 0.93     | 1.06      | 18.07                     | 18.64    | 19.27     | 18.30                      | 18.79    | 19.33     |
| 3000           | 0.49                   | 0.66     | 0.79      | 32.39                     | 34.94    | 35.68     | 30.90                      | 31.75    | 33.28     |
| 4000           | 0.35                   | 0.52     | 0.64      | 18.22                     | 18.29    | 18.44     | 18.31                      | 18.19    | 18.28     |
| 5000           | 0.23                   | 0.41     | 0.56      | 32.47                     | 35.81    | 40.65     | 51.49                      | 40.66    | 36.31     |
| 6000           | 0.46                   | 0.68     | 0.86      | 12.66                     | 12.57    | 12.61     | 12.67                      | 12.47    | 12.33     |
| 6230           | 0.58                   | 0.84     | 1.04      | 11.10                     | 10.89    | 10.81     | 11.09                      | 10.83    | 10.60     |
| 7000           | 1.14                   | 1.45     | 1.70      | 7.23                      | 7.17     | 7.14      | 7.21                       | 7.11     | 7.09      |
| 8000           | 2.34                   | 2.66     | 2.91      | 4.28                      | 4.41     | 4.50      | 4.28                       | 4.43     | 4.63      |
| 9000           | 3.65                   | 4.03     | 4.41      | 2.92                      | 3.09     | 3.07      | 3.04                       | 3.15     | 3.16      |
| 10000          | 3.97                   | 4.21     | 4.44      | 3.23                      | 4.18     | 5.62      | 3.18                       | 3.72     | 4.33      |
| 11000          | 22.11                  | 24.78    | 27.18     | 0.78                      | 1.14     | 1.46      | 0.76                       | 1.05     | 1.28      |
| 12000          | 7.80                   | 7.04     | 6.71      | 1.72                      | 2.58     | 3.22      | 1.78                       | 2.54     | 3.27      |

REV. X2  
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Page 1 of 1



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