

# Coaxial Low Pass Filter

VLF-2250

## 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             | 0.04                   | 0.05     | 0.06      | 45.83                     | 42.39    | 40.72     | 45.07                      | 40.79    | 39.07     |
| 200            | 0.07                   | 0.10     | 0.10      | 46.09                     | 44.16    | 42.27     | 41.18                      | 40.82    | 40.62     |
| 300            | 0.06                   | 0.11     | 0.11      | 50.25                     | 45.10    | 38.47     | 38.49                      | 38.15    | 37.22     |
| 400            | 0.09                   | 0.13     | 0.14      | 49.86                     | 42.49    | 36.65     | 38.60                      | 36.17    | 34.60     |
| 500            | 0.13                   | 0.14     | 0.19      | 53.50                     | 41.32    | 36.37     | 35.54                      | 33.78    | 31.96     |
| 600            | 0.10                   | 0.17     | 0.21      | 45.52                     | 39.05    | 34.83     | 33.10                      | 32.14    | 30.47     |
| 700            | 0.11                   | 0.17     | 0.22      | 41.75                     | 37.91    | 34.02     | 32.03                      | 30.94    | 29.47     |
| 800            | 0.14                   | 0.20     | 0.25      | 37.88                     | 34.96    | 32.20     | 31.79                      | 30.21    | 28.74     |
| 900            | 0.14                   | 0.20     | 0.29      | 35.21                     | 33.19    | 31.21     | 30.70                      | 29.19    | 27.85     |
| 1000           | 0.16                   | 0.23     | 0.28      | 34.45                     | 32.38    | 30.85     | 29.93                      | 28.33    | 27.18     |
| 1200           | 0.18                   | 0.27     | 0.34      | 30.78                     | 30.20    | 29.67     | 28.19                      | 27.29    | 26.38     |
| 1400           | 0.24                   | 0.33     | 0.41      | 29.65                     | 29.46    | 29.30     | 27.91                      | 27.10    | 26.07     |
| 1500           | 0.24                   | 0.35     | 0.43      | 28.69                     | 28.96    | 29.12     | 27.57                      | 26.97    | 26.05     |
| 1800           | 0.30                   | 0.43     | 0.53      | 28.18                     | 29.11    | 29.47     | 27.20                      | 26.95    | 26.18     |
| 2000           | 0.42                   | 0.56     | 0.70      | 27.19                     | 27.19    | 26.86     | 25.46                      | 24.89    | 24.24     |
| 2200           | 0.58                   | 0.77     | 0.95      | 22.29                     | 21.89    | 21.69     | 20.98                      | 20.47    | 20.14     |
| 2250           | 0.66                   | 0.88     | 1.06      | 20.99                     | 20.58    | 20.43     | 19.70                      | 19.19    | 18.89     |
| 2400           | 0.99                   | 1.30     | 1.57      | 16.73                     | 16.37    | 16.39     | 15.50                      | 14.94    | 14.53     |
| 2500           | 1.50                   | 1.94     | 2.40      | 13.71                     | 13.47    | 13.38     | 12.14                      | 11.43    | 10.84     |
| 2575           | 2.36                   | 3.09     | 3.87      | 10.63                     | 10.39    | 10.11     | 8.81                       | 8.09     | 7.45      |
| 2800           | 17.24                  | 20.32    | 23.43     | 2.48                      | 2.63     | 2.78      | 1.54                       | 1.71     | 1.87      |
| 2850           | 24.56                  | 28.31    | 32.18     | 1.96                      | 2.16     | 2.33      | 1.27                       | 1.46     | 1.67      |
| 3000           | 52.22                  | 54.76    | 50.87     | 1.18                      | 1.42     | 1.61      | 0.93                       | 1.15     | 1.30      |
| 3200           | 34.39                  | 33.79    | 33.48     | 0.80                      | 1.02     | 1.22      | 0.69                       | 0.87     | 1.03      |
| 3400           | 31.65                  | 32.14    | 32.65     | 0.62                      | 0.87     | 1.06      | 0.58                       | 0.75     | 0.87      |
| 3500           | 32.56                  | 33.34    | 34.12     | 0.56                      | 0.78     | 0.98      | 0.53                       | 0.68     | 0.79      |
| 3800           | 42.11                  | 44.87    | 47.86     | 0.45                      | 0.65     | 0.82      | 0.41                       | 0.55     | 0.64      |
| 4000           | 50.56                  | 46.65    | 44.23     | 0.44                      | 0.62     | 0.78      | 0.36                       | 0.49     | 0.58      |
| 4200           | 39.61                  | 38.68    | 37.92     | 0.43                      | 0.61     | 0.73      | 0.33                       | 0.44     | 0.52      |
| 4250           | 38.41                  | 37.62    | 37.08     | 0.38                      | 0.57     | 0.71      | 0.31                       | 0.44     | 0.53      |
| 4400           | 36.02                  | 35.68    | 35.33     | 0.35                      | 0.55     | 0.68      | 0.30                       | 0.43     | 0.50      |
| 4500           | 35.05                  | 34.85    | 34.61     | 0.34                      | 0.53     | 0.66      | 0.26                       | 0.38     | 0.49      |
| 4800           | 33.58                  | 33.60    | 33.55     | 0.31                      | 0.51     | 0.65      | 0.22                       | 0.37     | 0.47      |
| 5000           | 33.29                  | 33.36    | 33.39     | 0.29                      | 0.50     | 0.64      | 0.21                       | 0.35     | 0.47      |
| 5200           | 33.26                  | 33.41    | 33.46     | 0.26                      | 0.49     | 0.64      | 0.17                       | 0.32     | 0.46      |
| 5400           | 33.42                  | 33.64    | 33.74     | 0.24                      | 0.46     | 0.64      | 0.18                       | 0.34     | 0.48      |
| 5500           | 33.57                  | 33.81    | 33.95     | 0.23                      | 0.44     | 0.62      | 0.16                       | 0.34     | 0.49      |
| 5800           | 34.32                  | 34.69    | 34.94     | 0.20                      | 0.43     | 0.64      | 0.16                       | 0.32     | 0.50      |
| 6000           | 35.17                  | 35.68    | 36.09     | 0.18                      | 0.41     | 0.63      | 0.13                       | 0.32     | 0.50      |
| 6200           | 36.56                  | 37.29    | 37.88     | 0.19                      | 0.42     | 0.65      | 0.13                       | 0.32     | 0.53      |
| 6400           | 38.89                  | 40.02    | 41.14     | 0.16                      | 0.41     | 0.65      | 0.14                       | 0.32     | 0.55      |
| 6500           | 40.83                  | 42.46    | 44.11     | 0.17                      | 0.42     | 0.66      | 0.12                       | 0.33     | 0.54      |
| 6800           | 51.90                  | 46.70    | 43.41     | 0.15                      | 0.40     | 0.66      | 0.13                       | 0.34     | 0.57      |
| 7000           | 37.35                  | 35.24    | 33.64     | 0.17                      | 0.42     | 0.71      | 0.15                       | 0.36     | 0.59      |
| 7200           | 29.58                  | 28.03    | 26.74     | 0.17                      | 0.44     | 0.73      | 0.19                       | 0.42     | 0.67      |
| 7400           | 23.13                  | 21.65    | 20.27     | 0.21                      | 0.50     | 0.84      | 0.29                       | 0.56     | 0.87      |
| 7500           | 19.84                  | 18.27    | 16.79     | 0.26                      | 0.60     | 0.99      | 0.40                       | 0.74     | 1.17      |
| 7800           | 7.93                   | 6.54     | 6.28      | 2.01                      | 3.45     | 4.23      | 3.99                       | 8.73     | 13.70     |
| 8000           | 6.43                   | 8.13     | 9.55      | 2.35                      | 1.85     | 1.71      | 4.38                       | 2.95     | 2.39      |
| 8200           | 10.61                  | 11.68    | 12.58     | 0.69                      | 0.84     | 0.99      | 1.05                       | 1.09     | 1.17      |
| 8400           | 12.94                  | 13.68    | 14.33     | 0.40                      | 0.64     | 0.84      | 0.53                       | 0.68     | 0.82      |
| 8500           | 13.64                  | 14.30    | 14.92     | 0.35                      | 0.58     | 0.78      | 0.47                       | 0.64     | 0.78      |
| 8800           | 14.86                  | 15.37    | 15.91     | 0.25                      | 0.49     | 0.67      | 0.34                       | 0.51     | 0.64      |
| 9000           | 15.23                  | 15.69    | 16.20     | 0.21                      | 0.47     | 0.64      | 0.35                       | 0.54     | 0.66      |

REV. X2

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