

# Ceramic Low Pass Filter

# LFCN-2500+

## 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             | 0.06                   | 0.08     | 0.08      | 38.66                     | 36.61    | 35.50     | 39.34                      | 37.48    | 36.01     |
| 100            | 0.07                   | 0.08     | 0.11      | 38.82                     | 36.80    | 35.66     | 38.89                      | 36.83    | 35.56     |
| 200            | 0.10                   | 0.12     | 0.15      | 34.97                     | 35.46    | 36.08     | 35.19                      | 35.74    | 36.43     |
| 300            | 0.11                   | 0.14     | 0.16      | 32.81                     | 34.45    | 36.47     | 32.84                      | 34.52    | 36.99     |
| 400            | 0.12                   | 0.15     | 0.19      | 32.65                     | 33.97    | 36.30     | 32.89                      | 34.07    | 36.26     |
| 500            | 0.15                   | 0.18     | 0.21      | 32.94                     | 34.08    | 36.19     | 33.26                      | 34.06    | 35.50     |
| 600            | 0.14                   | 0.19     | 0.24      | 33.11                     | 34.50    | 36.97     | 33.12                      | 33.83    | 34.91     |
| 700            | 0.16                   | 0.21     | 0.26      | 32.80                     | 34.85    | 37.58     | 33.14                      | 34.42    | 35.91     |
| 800            | 0.17                   | 0.23     | 0.27      | 33.76                     | 37.00    | 41.17     | 32.60                      | 34.00    | 34.93     |
| 900            | 0.17                   | 0.25     | 0.30      | 35.95                     | 40.87    | 50.14     | 33.67                      | 34.29    | 34.00     |
| 1000           | 0.18                   | 0.26     | 0.32      | 40.50                     | 48.31    | 46.84     | 35.22                      | 34.38    | 32.96     |
| 1200           | 0.22                   | 0.30     | 0.37      | 34.14                     | 33.51    | 33.43     | 31.35                      | 30.24    | 29.47     |
| 1300           | 0.23                   | 0.32     | 0.40      | 30.16                     | 29.74    | 29.79     | 28.89                      | 28.01    | 27.37     |
| 1500           | 0.28                   | 0.37     | 0.46      | 25.53                     | 24.96    | 25.14     | 25.18                      | 24.35    | 24.01     |
| 2000           | 0.42                   | 0.54     | 0.65      | 18.48                     | 18.79    | 19.11     | 18.58                      | 18.77    | 18.89     |
| 2500           | 0.61                   | 0.78     | 0.95      | 18.37                     | 18.59    | 18.91     | 17.23                      | 17.40    | 17.77     |
| 2530           | 0.63                   | 0.80     | 0.96      | 18.46                     | 18.63    | 18.91     | 17.11                      | 17.29    | 17.60     |
| 3000           | 2.33                   | 2.78     | 3.26      | 6.98                      | 6.77     | 6.52      | 6.73                       | 6.53     | 6.31      |
| 3500           | 15.63                  | 16.67    | 17.75     | 0.94                      | 1.09     | 1.25      | 1.19                       | 1.39     | 1.55      |
| 3660           | 22.24                  | 23.42    | 24.64     | 0.73                      | 0.89     | 1.03      | 1.03                       | 1.25     | 1.45      |
| 3760           | 26.79                  | 28.04    | 29.33     | 0.60                      | 0.76     | 0.90      | 1.01                       | 1.24     | 1.44      |
| 4000           | 37.32                  | 38.07    | 38.76     | 0.53                      | 0.69     | 0.82      | 1.05                       | 1.32     | 1.58      |
| 4500           | 35.25                  | 35.21    | 35.18     | 0.46                      | 0.63     | 0.76      | 1.08                       | 1.36     | 1.64      |
| 5000           | 33.25                  | 33.54    | 34.08     | 0.41                      | 0.63     | 0.81      | 0.74                       | 0.96     | 1.13      |
| 5500           | 36.18                  | 36.41    | 36.70     | 0.45                      | 0.63     | 0.85      | 0.52                       | 0.71     | 0.86      |
| 6000           | 30.28                  | 31.21    | 32.18     | 0.60                      | 0.72     | 0.88      | 0.51                       | 0.68     | 0.83      |
| 6500           | 27.39                  | 27.42    | 28.40     | 0.56                      | 0.71     | 0.88      | 0.46                       | 0.66     | 0.84      |
| 7000           | 25.45                  | 26.42    | 27.08     | 0.52                      | 0.68     | 0.90      | 0.42                       | 0.62     | 0.89      |
| 7500           | 24.28                  | 23.81    | 24.85     | 0.61                      | 0.72     | 0.90      | 0.53                       | 0.74     | 1.02      |
| 8000           | 22.54                  | 22.47    | 23.37     | 0.68                      | 0.76     | 0.95      | 0.47                       | 0.69     | 1.01      |
| 8500           | 20.42                  | 21.29    | 21.79     | 0.72                      | 0.81     | 0.99      | 0.61                       | 0.78     | 1.13      |
| 9000           | 20.00                  | 20.60    | 20.65     | 0.69                      | 0.82     | 1.03      | 0.74                       | 0.87     | 1.29      |
| 9500           | 19.35                  | 19.61    | 18.89     | 0.55                      | 0.78     | 1.10      | 0.77                       | 1.00     | 1.35      |
| 10000          | 18.19                  | 18.05    | 17.03     | 0.62                      | 0.86     | 1.20      | 0.82                       | 1.10     | 1.36      |
| 10500          | 16.87                  | 17.16    | 16.36     | 0.64                      | 0.85     | 1.15      | 0.83                       | 1.05     | 1.19      |
| 11000          | 15.83                  | 16.05    | 15.78     | 0.58                      | 0.81     | 1.07      | 0.82                       | 1.01     | 1.13      |
| 11500          | 14.66                  | 15.04    | 15.01     | 0.70                      | 0.96     | 1.26      | 0.75                       | 0.96     | 1.10      |
| 12000          | 13.73                  | 13.96    | 13.97     | 0.68                      | 0.99     | 1.40      | 0.72                       | 1.01     | 1.24      |
| 12500          | 12.93                  | 12.85    | 12.77     | 0.76                      | 1.24     | 1.79      | 0.79                       | 1.16     | 1.44      |
| 13000          | 11.84                  | 11.79    | 11.97     | 1.00                      | 1.51     | 2.10      | 0.92                       | 1.31     | 1.69      |
| 13500          | 10.74                  | 11.15    | 11.73     | 1.67                      | 2.19     | 2.69      | 1.12                       | 1.53     | 2.04      |
| 14000          | 10.30                  | 11.63    | 13.87     | 4.47                      | 6.38     | 8.77      | 1.61                       | 2.00     | 2.45      |
| 14500          | 19.30                  | 19.65    | 21.06     | 2.67                      | 2.70     | 2.96      | 1.48                       | 2.01     | 2.65      |
| 15000          | 28.64                  | 32.48    | 23.04     | 4.54                      | 5.42     | 4.78      | 3.51                       | 5.68     | 9.57      |
| 15500          | 13.60                  | 14.11    | 15.17     | 2.50                      | 3.01     | 3.53      | 4.04                       | 3.71     | 3.77      |
| 16000          | 15.66                  | 15.88    | 16.91     | 2.44                      | 3.26     | 4.16      | 2.36                       | 2.89     | 3.51      |
| 16500          | 16.06                  | 16.30    | 18.44     | 2.33                      | 2.83     | 3.45      | 2.58                       | 3.07     | 3.41      |
| 17000          | 16.95                  | 17.85    | 20.37     | 2.31                      | 2.62     | 3.25      | 2.71                       | 3.06     | 3.30      |
| 17500          | 21.07                  | 22.06    | 24.04     | 2.81                      | 3.82     | 4.84      | 2.35                       | 2.80     | 3.20      |
| 18000          | 20.53                  | 18.84    | 17.42     | 7.33                      | 10.68    | 14.76     | 2.01                       | 2.53     | 3.13      |
| 18500          | 12.79                  | 13.45    | 14.72     | 8.60                      | 7.47     | 8.31      | 2.00                       | 2.61     | 3.42      |
| 19000          | 13.52                  | 14.00    | 14.77     | 4.14                      | 4.76     | 5.89      | 2.35                       | 3.50     | 4.98      |
| 19500          | 11.39                  | 12.98    | 15.48     | 4.79                      | 4.71     | 4.33      | 7.44                       | 8.67     | 8.29      |
| 20000          | 16.84                  | 18.67    | 20.09     | 2.65                      | 2.39     | 2.44      | 5.04                       | 4.91     | 5.14      |

REV. X2

LFCN-2500+

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