

# Ceramic Low Pass Filter

# LFCN-3800D+

## 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 |
| 40             | 0.04                   | 0.06     | 0.06      | 41.30                     | 36.61    | 34.18     | 41.12                      | 36.61    | 34.10     |
| 50             | 0.02                   | 0.04     | 0.04      | 38.54                     | 33.76    | 31.36     | 38.69                      | 33.53    | 31.10     |
| 250            | 0.05                   | 0.08     | 0.09      | 28.34                     | 33.90    | 36.99     | 28.05                      | 34.30    | 40.99     |
| 500            | 0.06                   | 0.09     | 0.11      | 30.23                     | 31.43    | 34.14     | 30.47                      | 31.65    | 38.23     |
| 1000           | 0.08                   | 0.14     | 0.18      | 28.95                     | 29.46    | 29.79     | 30.20                      | 30.38    | 31.33     |
| 1500           | 0.12                   | 0.20     | 0.24      | 28.42                     | 28.73    | 28.66     | 29.88                      | 30.73    | 29.31     |
| 2000           | 0.13                   | 0.22     | 0.27      | 30.49                     | 30.95    | 31.27     | 30.39                      | 33.54    | 33.32     |
| 2500           | 0.16                   | 0.25     | 0.33      | 30.24                     | 30.38    | 29.40     | 32.48                      | 34.75    | 36.12     |
| 3000           | 0.20                   | 0.32     | 0.41      | 27.36                     | 26.43    | 24.42     | 28.94                      | 28.18    | 26.36     |
| 3800           | 0.34                   | 0.49     | 0.60      | 20.36                     | 19.95    | 20.31     | 20.66                      | 20.63    | 21.06     |
| 4430           | 0.65                   | 0.85     | 1.04      | 19.47                     | 19.48    | 19.35     | 18.81                      | 19.15    | 18.64     |
| 4700           | 1.77                   | 2.15     | 2.46      | 8.35                      | 7.97     | 7.99      | 8.32                       | 8.15     | 8.12      |
| 4780           | 2.48                   | 2.97     | 3.35      | 6.31                      | 5.94     | 5.97      | 6.34                       | 6.14     | 6.15      |
| 4920           | 4.42                   | 5.14     | 5.67      | 3.72                      | 3.50     | 3.53      | 3.71                       | 3.64     | 3.70      |
| 5140           | 9.32                   | 10.33    | 11.15     | 1.63                      | 1.65     | 1.73      | 1.63                       | 1.74     | 1.86      |
| 5300           | 14.29                  | 15.47    | 16.50     | 0.94                      | 1.06     | 1.18      | 0.98                       | 1.15     | 1.29      |
| 5430           | 19.40                  | 20.78    | 22.03     | 0.65                      | 0.82     | 0.96      | 0.76                       | 0.93     | 1.06      |
| 5530           | 24.66                  | 26.37    | 27.99     | 0.56                      | 0.74     | 0.86      | 0.67                       | 0.84     | 0.95      |
| 5610           | 30.59                  | 32.98    | 35.24     | 0.48                      | 0.67     | 0.79      | 0.62                       | 0.79     | 0.90      |
| 5660           | 36.35                  | 39.34    | 40.75     | 0.49                      | 0.68     | 0.79      | 0.57                       | 0.75     | 0.86      |
| 5820           | 33.07                  | 31.99    | 31.33     | 0.42                      | 0.60     | 0.71      | 0.52                       | 0.69     | 0.80      |
| 6000           | 27.43                  | 27.28    | 27.25     | 0.33                      | 0.53     | 0.65      | 0.50                       | 0.66     | 0.76      |
| 6020           | 27.11                  | 26.95    | 26.94     | 0.31                      | 0.51     | 0.62      | 0.53                       | 0.68     | 0.77      |
| 6360           | 25.34                  | 25.79    | 26.00     | 0.29                      | 0.46     | 0.57      | 0.48                       | 0.63     | 0.74      |
| 6870           | 28.04                  | 28.94    | 29.40     | 0.23                      | 0.39     | 0.51      | 0.39                       | 0.60     | 0.76      |
| 7270           | 32.19                  | 33.34    | 34.42     | 0.25                      | 0.42     | 0.56      | 0.38                       | 0.65     | 0.84      |
| 7580           | 37.09                  | 37.23    | 38.17     | 0.22                      | 0.44     | 0.61      | 0.40                       | 0.65     | 0.88      |
| 8290           | 29.31                  | 29.03    | 29.31     | 0.31                      | 0.60     | 0.81      | 0.59                       | 0.83     | 1.08      |
| 8800           | 25.38                  | 25.22    | 25.15     | 0.45                      | 0.69     | 0.93      | 0.76                       | 1.02     | 1.29      |
| 9080           | 23.83                  | 24.17    | 24.09     | 0.47                      | 0.74     | 1.02      | 0.86                       | 1.07     | 1.36      |
| 10000          | 20.06                  | 21.14    | 20.92     | 0.66                      | 0.83     | 1.02      | 1.38                       | 1.52     | 1.79      |
| 11000          | 20.79                  | 21.87    | 22.62     | 0.77                      | 0.98     | 1.06      | 1.99                       | 2.45     | 2.73      |
| 12000          | 23.61                  | 23.71    | 23.22     | 0.79                      | 1.02     | 1.09      | 1.40                       | 1.61     | 1.89      |
| 13000          | 18.17                  | 18.24    | 17.88     | 0.78                      | 0.96     | 1.31      | 1.21                       | 1.47     | 1.75      |
| 14000          | 15.49                  | 15.36    | 15.11     | 1.14                      | 1.36     | 1.91      | 1.69                       | 1.94     | 2.47      |
| 15000          | 15.92                  | 15.50    | 16.50     | 1.67                      | 2.04     | 2.27      | 2.42                       | 2.67     | 2.93      |
| 16000          | 16.93                  | 16.13    | 16.62     | 1.35                      | 2.38     | 2.89      | 2.40                       | 2.39     | 2.41      |
| 17000          | 17.19                  | 17.03    | 17.23     | 1.94                      | 2.17     | 3.10      | 1.76                       | 2.11     | 2.10      |
| 18000          | 17.68                  | 17.94    | 18.92     | 2.74                      | 2.15     | 1.83      | 1.25                       | 2.01     | 2.71      |
| 19000          | 16.89                  | 13.32    | 12.19     | 2.04                      | 4.97     | 5.79      | 5.48                       | 5.19     | 5.24      |
| 20000          | 9.95                   | 9.65     | 9.44      | 1.73                      | 2.09     | 2.58      | 2.26                       | 3.27     | 3.91      |