

# Ceramic High Pass Filter

# HFCN-1810

## Typical Performance Data

| FREQ.<br>(MHz) | INSERTION LOSS<br>(dB) |          |           | INPUT RETURN LOSS<br>(dB) |          |           | OUTPUT RETURNLOSS<br>(dB) |          |           |
|----------------|------------------------|----------|-----------|---------------------------|----------|-----------|---------------------------|----------|-----------|
|                | @ -55° C               | @ +25° C | @ +100° C | @ -55° C                  | @ +25° C | @ +100° C | @ -55° C                  | @ +25° C | @ +100° C |
| 1              | 100.00                 | 94.72    | 91.00     | 0.01                      | 0.01     | 0.01      | 0.02                      | 0.01     | 0.03      |
| 50             | 71.41                  | 65.70    | 61.98     | 0.01                      | 0.00     | 0.01      | 0.02                      | 0.01     | 0.03      |
| 100            | 71.66                  | 74.52    | 81.28     | 0.00                      | 0.01     | 0.01      | 0.01                      | 0.01     | 0.01      |
| 500            | 63.58                  | 62.74    | 63.71     | 0.04                      | 0.06     | 0.11      | 0.02                      | 0.06     | 0.07      |
| 700            | 57.85                  | 57.90    | 57.74     | 0.06                      | 0.13     | 0.15      | 0.05                      | 0.11     | 0.13      |
| 1100           | 45.84                  | 45.78    | 45.58     | 0.18                      | 0.26     | 0.33      | 0.18                      | 0.25     | 0.28      |
| 1190           | 44.44                  | 44.48    | 44.57     | 0.24                      | 0.32     | 0.40      | 0.22                      | 0.29     | 0.33      |
| 1350           | 54.34                  | 55.79    | 53.44     | 0.33                      | 0.44     | 0.53      | 0.31                      | 0.40     | 0.46      |
| 1390           | 52.07                  | 47.92    | 43.78     | 0.38                      | 0.51     | 0.61      | 0.34                      | 0.44     | 0.51      |
| 1415           | 45.06                  | 42.06    | 39.16     | 0.37                      | 0.50     | 0.64      | 0.35                      | 0.46     | 0.52      |
| 1480           | 34.02                  | 32.05    | 30.18     | 0.48                      | 0.66     | 0.80      | 0.40                      | 0.54     | 0.63      |
| 1570           | 23.19                  | 21.87    | 20.25     | 0.65                      | 0.90     | 1.14      | 0.57                      | 0.75     | 0.87      |
| 1625           | 17.88                  | 16.58    | 15.15     | 0.90                      | 1.23     | 1.60      | 0.73                      | 0.95     | 1.16      |
| 1680           | 12.95                  | 11.76    | 10.48     | 1.35                      | 1.87     | 2.53      | 1.06                      | 1.42     | 1.80      |
| 1760           | 6.78                   | 5.97     | 5.18      | 3.07                      | 4.28     | 5.79      | 2.46                      | 3.24     | 4.10      |
| 1810           | 4.04                   | 3.63     | 3.28      | 5.50                      | 7.29     | 9.37      | 4.41                      | 5.49     | 6.55      |
| 1820           | 3.63                   | 3.29     | 3.04      | 6.10                      | 7.98     | 10.07     | 4.91                      | 6.01     | 7.05      |
| 1950           | 1.31                   | 1.52     | 1.66      | 13.36                     | 13.08    | 12.46     | 11.07                     | 11.00    | 10.76     |
| 2170           | 0.75                   | 0.94     | 1.08      | 14.99                     | 14.95    | 14.50     | 14.59                     | 14.77    | 14.50     |
| 2250           | 0.62                   | 0.78     | 0.93      | 16.89                     | 16.93    | 16.58     | 16.60                     | 16.88    | 16.68     |
| 2600           | 0.37                   | 0.54     | 0.65      | 30.73                     | 29.65    | 30.01     | 30.88                     | 30.25    | 30.54     |
| 3750           | 0.50                   | 0.69     | 0.80      | 13.22                     | 13.59    | 13.67     | 13.24                     | 13.50    | 13.43     |
| 3800           | 0.50                   | 0.72     | 0.82      | 12.87                     | 13.08    | 13.26     | 12.87                     | 12.95    | 12.99     |
| 3850           | 0.52                   | 0.74     | 0.85      | 12.32                     | 12.58    | 12.71     | 12.40                     | 12.53    | 12.48     |
| 4000           | 0.65                   | 0.87     | 0.97      | 10.95                     | 11.19    | 11.25     | 11.11                     | 11.28    | 11.22     |
| 4500           | 1.13                   | 1.39     | 1.49      | 8.03                      | 7.98     | 8.09      | 8.05                      | 8.00     | 8.12      |
| 4750           | 1.38                   | 1.66     | 1.76      | 6.77                      | 6.84     | 6.99      | 6.88                      | 6.90     | 6.97      |
| 5000           | 1.71                   | 1.98     | 2.10      | 5.93                      | 5.99     | 6.21      | 6.00                      | 6.00     | 6.14      |
| 5500           | 2.58                   | 2.71     | 2.88      | 4.39                      | 4.73     | 5.08      | 4.47                      | 4.73     | 4.86      |
| 6000           | 3.18                   | 3.63     | 3.85      | 3.61                      | 3.80     | 4.04      | 3.64                      | 3.78     | 3.77      |
| 6500           | 3.92                   | 4.35     | 4.75      | 3.10                      | 3.16     | 3.29      | 3.01                      | 3.15     | 3.21      |
| 7000           | 4.63                   | 4.89     | 5.22      | 2.63                      | 2.78     | 2.78      | 2.54                      | 2.75     | 2.80      |
| 7500           | 5.33                   | 5.47     | 5.88      | 2.22                      | 2.47     | 2.62      | 2.20                      | 2.46     | 2.67      |
| 8000           | 5.95                   | 6.23     | 6.11      | 2.03                      | 2.30     | 2.58      | 2.09                      | 2.26     | 2.52      |
| 8500           | 6.31                   | 6.56     | 6.93      | 1.65                      | 2.05     | 2.27      | 1.70                      | 2.03     | 2.18      |
| 9210           | 7.04                   | 7.88     | 8.08      | 1.74                      | 2.10     | 3.00      | 1.80                      | 2.00     | 2.53      |
| 10000          | 6.44                   | 6.51     | 6.60      | 1.60                      | 2.01     | 2.39      | 1.56                      | 1.95     | 2.12      |
| 10760          | 5.75                   | 6.06     | 6.26      | 2.03                      | 2.20     | 2.51      | 1.95                      | 2.36     | 2.67      |
| 11000          | 5.38                   | 5.98     | 6.62      | 2.16                      | 2.30     | 2.48      | 2.41                      | 3.01     | 4.17      |
| 11230          | 5.65                   | 7.60     | 9.21      | 2.13                      | 2.14     | 2.22      | 4.33                      | 8.89     | 12.79     |
| 12000          | 5.16                   | 5.10     | 5.31      | 2.24                      | 3.27     | 4.36      | 2.59                      | 3.17     | 3.48      |

REV. X1  
HFCN-1810  
070930  
Page 1 of 1



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED • RoHS compliant

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see

