

# Ceramic High Pass Filter

# HFCN-1760+

## 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              | 92.24                  | 94.01    | 97.72     | 0.03                      | 0.05     | 0.15      | 0.03                      | 0.05     | 0.07      |
| 50             | 77.02                  | 78.80    | 82.54     | 0.10                      | 0.12     | 0.14      | 0.09                      | 0.11     | 0.14      |
| 100            | 82.95                  | 79.27    | 79.44     | 0.14                      | 0.17     | 0.17      | 0.12                      | 0.15     | 0.18      |
| 565            | 88.59                  | 88.18    | 84.99     | 0.26                      | 0.33     | 0.38      | 0.23                      | 0.32     | 0.38      |
| 700            | 65.49                  | 65.21    | 64.52     | 0.28                      | 0.36     | 0.42      | 0.25                      | 0.34     | 0.42      |
| 825            | 54.89                  | 53.98    | 54.96     | 0.32                      | 0.40     | 0.47      | 0.29                      | 0.38     | 0.47      |
| 925            | 46.61                  | 46.19    | 45.75     | 0.33                      | 0.43     | 0.51      | 0.31                      | 0.42     | 0.51      |
| 950            | 44.61                  | 44.24    | 43.78     | 0.34                      | 0.45     | 0.51      | 0.32                      | 0.43     | 0.52      |
| 1020           | 39.35                  | 38.93    | 38.49     | 0.35                      | 0.46     | 0.54      | 0.34                      | 0.46     | 0.57      |
| 1145           | 30.33                  | 29.88    | 29.50     | 0.41                      | 0.54     | 0.64      | 0.41                      | 0.56     | 0.67      |
| 1215           | 25.49                  | 25.04    | 24.68     | 0.46                      | 0.60     | 0.73      | 0.46                      | 0.63     | 0.76      |
| 1230           | 24.45                  | 23.99    | 23.64     | 0.49                      | 0.63     | 0.75      | 0.46                      | 0.64     | 0.77      |
| 1370           | 15.28                  | 14.90    | 14.61     | 0.77                      | 0.96     | 1.13      | 0.79                      | 1.02     | 1.20      |
| 1460           | 10.13                  | 9.86     | 9.57      | 1.34                      | 1.59     | 1.84      | 1.33                      | 1.63     | 1.88      |
| 1585           | 4.85                   | 4.79     | 4.68      | 3.25                      | 3.63     | 4.02      | 3.21                      | 3.64     | 4.02      |
| 1670           | 2.86                   | 2.93     | 2.89      | 5.41                      | 5.83     | 6.29      | 5.38                      | 5.81     | 6.29      |
| 1760           | 1.76                   | 1.87     | 1.92      | 7.96                      | 8.36     | 8.81      | 7.88                      | 8.31     | 8.77      |
| 1850           | 1.20                   | 1.35     | 1.42      | 10.37                     | 10.75    | 11.09     | 10.24                     | 10.59    | 10.96     |
| 1900           | 1.02                   | 1.18     | 1.25      | 11.56                     | 12.00    | 12.28     | 11.42                     | 11.79    | 12.11     |
| 1970           | 0.85                   | 0.99     | 1.07      | 13.05                     | 13.58    | 13.92     | 12.93                     | 13.34    | 13.63     |
| 2100           | 0.66                   | 0.79     | 0.88      | 16.00                     | 16.83    | 17.29     | 15.60                     | 16.17    | 16.52     |
| 2150           | 0.58                   | 0.70     | 0.79      | 17.24                     | 18.19    | 18.82     | 16.89                     | 17.56    | 17.95     |
| 2200           | 0.55                   | 0.67     | 0.75      | 18.68                     | 19.65    | 20.50     | 18.21                     | 18.91    | 19.43     |
| 2300           | 0.45                   | 0.59     | 0.67      | 22.08                     | 23.17    | 24.65     | 21.00                     | 21.78    | 22.47     |
| 3000           | 0.40                   | 0.54     | 0.61      | 17.01                     | 17.03    | 17.29     | 16.92                     | 16.74    | 16.90     |
| 3500           | 0.39                   | 0.56     | 0.61      | 15.91                     | 16.23    | 16.30     | 15.70                     | 16.00    | 16.08     |
| 4000           | 0.36                   | 0.53     | 0.62      | 20.86                     | 21.09    | 21.00     | 20.25                     | 20.83    | 20.64     |
| 4200           | 0.35                   | 0.52     | 0.60      | 24.06                     | 25.12    | 25.26     | 24.04                     | 24.97    | 24.56     |
| 4500           | 0.40                   | 0.58     | 0.67      | 23.58                     | 22.65    | 22.28     | 25.30                     | 23.67    | 22.32     |
| 4700           | 0.51                   | 0.62     | 0.81      | 18.88                     | 18.29    | 17.58     | 19.99                     | 18.50    | 18.25     |
| 5200           | 0.70                   | 0.98     | 1.21      | 11.84                     | 11.47    | 10.71     | 11.77                     | 11.60    | 10.84     |
| 5300           | 1.02                   | 1.12     | 1.41      | 10.97                     | 10.55    | 10.55     | 11.18                     | 10.65    | 10.75     |
| 5500           | 1.07                   | 1.31     | 1.56      | 9.06                      | 8.89     | 8.80      | 9.01                      | 8.87     | 8.83      |
| 6000           | 1.90                   | 2.05     | 2.39      | 6.03                      | 6.26     | 6.56      | 6.05                      | 6.21     | 6.55      |
| 6610           | 2.78                   | 3.11     | 3.21      | 4.14                      | 4.42     | 4.72      | 4.06                      | 4.38     | 4.69      |
| 7000           | 3.34                   | 3.67     | 4.04      | 3.76                      | 3.70     | 3.95      | 3.61                      | 3.62     | 4.00      |
| 8000           | 4.30                   | 5.06     | 5.37      | 2.98                      | 2.69     | 2.58      | 2.73                      | 2.59     | 2.63      |
| 8500           | 5.13                   | 5.39     | 5.68      | 2.34                      | 2.57     | 2.54      | 2.25                      | 2.49     | 2.51      |
| 9000           | 4.77                   | 4.70     | 4.82      | 2.66                      | 3.34     | 4.02      | 2.59                      | 3.13     | 3.55      |
| 10000          | 21.43                  | 21.92    | 23.52     | 0.97                      | 1.30     | 1.68      | 0.74                      | 1.16     | 1.42      |
| 11000          | 7.22                   | 7.76     | 8.48      | 2.47                      | 2.32     | 2.28      | 4.83                      | 3.71     | 3.36      |

REV. X1  
HFCN-1760+  
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

