**TAULES ANÁLISIS**

IMPORTANT: totes les TF han d’estar sobre els 0 dB’s (vol dir que no hi ha diferencia d’amplitut entre entrada y sortida)

* pendiente → orden
* frec de corte → frecuencia on el nivell baixa 3dBs (NOMÉS CONTA QUAN RES=0)
* respuesta del control de freq (lineal o log)
* Q resonancia → (fc / ( f2 - f1) on fc la freq de res maxima i f2 i f1 son les f limit

Q alta - campana estreta; Q baixa-campana ample

* ganancia resonancia (diferencia entre dB normal i pic de la resonancia)
* rango resonancia → ample de banda

LO QUE ESTÁ EN VERMELL JA ESTÀ FET!

OBs: en tots els casos, a partir de 512Hz, la resposta té una fase constant . En canvi, a baixes freq, está en contrafase.

**Sweep variable**

| **IR** | **pendiente**  **(dB/oct)** | **fr. corte**  **(Hz)** | **Q res** | **Gain res**  **(dB)** | **f1-f2**  **(Hz)** |
| --- | --- | --- | --- | --- | --- |
| 16F\_0R  max  mid  min | 19.72  18.66  17.19 | 49.43  62.73  69.54 | 0  0  0 | 0  0  0 | 0  0  0 |
| 16F\_2R  max  mid  min |  |  |  |  |  |
| 16F\_5R  max  mid  min |  |  | 2,40  1.90  2.07 | 6  9  6 | 41-64  38-67  40-65 |
| 16F\_8R  max  mid  min |  |  | 1.74  1.63  1.50 | 20  19  20 | 40-75  37-75  37-77 |
| 16F\_10R  max  mid  min |  |  | 2.80  1.84  1.28 | 72  95  83 | 54-78  52-89  44-97 |
| 64F\_0R  max  mid  min | 16.92  15.41  11.60 | 164.06  146.25  142.16 | 0  0  0 | 0  0  0 | 0  0  0 |
| 64F\_2R  max  mid  min |  |  | 1.60  1.95  2.04 | 9  9  10 | 141-262  139-252  155-259 |
| 64F\_5R  max  mid  min |  |  | 1.45  1.80  2.06 | 12  13  12 | 142-314  161-288  165-282 |
| 64F\_8R  max  mid  min |  |  | 1.80  1.76  1.88 | 33  33  31 | 175-316  175-323  179-317 |
| 64F\_10R  max  mid  min |  |  | 2.20  2.05  2.26 | 106  114  136 | 212-340  212-348  222-346 |
| 512F\_0R  max  mid  min | 15.60  12.02  11.60 | 1050.68  1033.58  990.68 | 0  0  0 | 0  0  0 | 0  0  0 |
| 512F\_2R  max  mid  min |  |  | 1.80  1.50  1.40 | 4  5  6 | 923-1736  910-1831  807-1860 |
| 512F\_5R  max  mid  min |  |  | 1.65  1.80  1.80 | 17  16  14 | 1705-2162  1188-2162  1196-2148 |
| 512F\_8R  max  mid  min |  |  | 2.30  2.20  2.10 | 34  36  36 | 1461-2311  1451-2342  1413-2357 |
| 512F\_10R  max  mid  min |  |  | 1.96  1.93  2.01 | 113  137  140 | 1520-2587  1510-2587  1516-2552 |
| 4096F\_0R  max  mid  min | 12.02  9.92  10.30 | 7085.20  5789.18  5928.69 | 0  0  0 | 0  0  0 | 0  0  0 |
| 4096F\_2R  max  mid  min |  |  | 1.69  1.59  1.64 | 6  7  7 | 6469-12452  6100-12451  6328-12453 |
| 4096F\_5R  max  mid  min |  |  | 1.68  1.78  1.85 | 15  14  15 | 7440-14319  7776-14319  8126-14531 |
| 4096F\_8R  max  mid  min |  |  | 1.74  1.78  1.70 | 36  35  34 | 8619-15989  8619-15872  8431-15989 |
| 4096F\_10R  max  mid  min |  |  | 2.36  2.01  1.98 | 117  154  182 | 10747-16588  10360-17210  10133-17084 |

**Sweep estática**

| **IR** | **pendiente** | **fr. corte** | **Q res** | **Gain res** | **rango res** |
| --- | --- | --- | --- | --- | --- |
| 16F:  0R  1R  2R  3R  4R  5R  6R  7R  8R  9R  10R | —------------ | —---------- | 0  0  0  2.16  3.23  2.54  2.59  2.81  2.90  2.95  2.72 | 0  0  0  4  4  8  8  8  12  25  70 | 0  0  0  37-62  44-61  43-65  44-66  47-68  49-71  53-75  56-81 |
| 32F:  0R  1R  2R  3R  4R  5R  6R  7R  8R  9R  10R | —------------- | —---------- | 0  0  2.09  2.69  2.70  2.73  2.30  2.77  2.78  3.69  3.77 | 0  0  3  4  4  7  10  10  14  38  93 | 0  0  47-81  59-88  63-93  64-94  62-99  67-98  71-103  82-108  80-112 |
| 64F:  0R  1R  2R  3R  4R  5R  6R  7R  8R  9R  10R | —---------- | —---------- | 0  0  2.28  1.92  2.55  2.50  2.36  2.59  3.07  2.39  2.43 | 0  0  4  8  9  10  13  15  20  101  110 | 0  0  136-220  137-245  165-249  169-257  170-266  181-271  196-277  200-308  204-312 |
| 128F:  0R  1R  2R  3R  4R  5R  6R  7R  8R  9R  10R | —---------- | —---------- | 0  0  2.26  2.46  2.43  2.62  2.67  2.29  2.85  2.21  2.61 | 0  0  4  7  9  11  13  19  25  116  130 | 0  0  336-549  402-619  410-636  441-658  456-675  447-707  501-717  478-771  521-776 |
| 256F:  0R  1R  2R  3R  4R  5R  6R  7R  8R  9R  10R | —---------- | —---------- | 0  0  2.33  1.97  2.68  2.32  2.52  2.68  2.93  2.42  1.91 | 0  0  2  7  7  11  13  18  27  116  131 | 0  0  591-935  607-1069  741-1090  727-1142  761-1157  803-1181  869-1229  847-1304  780-1375 |
| 512F:  0R  1R  2R  3R  4R  5R  6R  7R  8R  9R  10R | —---------- | —---------- | 0  0  1.96  2.66  2.30  2.96  2.32  2.40  2.37  2.97  1.64 | 0  0  5  5  8  10  14  19  28  122  135 | 0  0  1013-1771  1221-1843  1270-2010  1432-2023  1340-2119  1403-2177  1451-2250  1592-2265  1331-2586 |
| 1024F:  0R  1R  2R  3R  4R  5R  6R  7R  8R  9R  10R | —---------- | —---------- | 0  0  2.81  2.23  2.43  2.36  2.88  2.63  2.48  2.42  1.72 | 0  0  3  7  10  11  13  18  33  128  137 | 0  0  2010-2936  2033-3309  2265-3483  2311-3607  2519-3607  2503-3729  2605-3959  2605-4039  2296-4375 |
| 2048F:  0R  1R  2R  3R  4R  5R  6R  7R  8R  9R  10R | —---------- | —---------- | 0  0  2.75  2.31  2.49  2.41  2.20  2.47  2.51  2.09  1.70 | 0  0  2  7  8  10  17  18  28  132  147 | 0  0  3275-4839  3586-5681  3818-5842  3954-6091  3926-6351  4189-6396  4358-6622  4151-7002  3926-7508 |
| 4096F:  0R  1R  2R  3R  4R  5R  6R  7R  8R  9R  10R | —---------- | —---------- | 0  0  2.27  2.07  2.04  2.11  2.28  2.34  2.52  2.07  1.66 | 0  0  3  5  10  11  14  19  28  137  151 | 0  0  6614-10436  7172-12002  7440-12636  7891-13013  8370-13304  8683-13600  9346-14110  8683-14747  8247-15990 |
| 8192F:  0R  1R  2R  3R  4R  5R  6R  7R  8R  9R  10R | —---------- | —---------- | 0  0  2.05  2.01  2.12  2.15  2.30  2.14  2.67  3.07  3.39 | 0  0  3  7  9  11  14  19  25  133  133 | 0  0  16589-28173  18822-32157  19938-33122  20991-34363  22264-35130  22100-36336  25142-36899  26956-37811  28590-38655 |
| 16384F:  0R  1R  2R  3R  4R  5R  6R  7R  8R  9R  10R | —---------- | —---------- | 0  0  2.45  2.80  2.88  3.35  2.96  3.29  3.35  6.04  5.55 | 0  0  5  8  9  10  12  12  10  5  6 | 0  0  24602-39555  25509-39667  25881-39667  27823-39667  26258-39667  27623-39667  27823-39667  33102-39667  32638-39809 |
| 0R:  16kF  8kF  4kF  2kF  1kF  512F  256F  128F  64F  32F  16F | 6.67  8.75  10.79  13.53  13.98  14.31  13.87  13.12  13.22  12.05  12.32 | —-------  28145.6  6166.7  2514.2  1298.9  845.1  468.5  268.5  123.3  40.4  35.2 | 0  0  0  0  0  0  0  0  0  0  0 | 0  0  0  0  0  0  0  0  0  0  0 | 0  0  0  0  0  0  0  0  0  0  0 |

**CV**

* **sweep estàtica**

| **IR** | **pendiente**  **(dB/octava)** | **fr. corte**  **(Hz)** | **Q res** | **Gain res**  **(dB)** | **rango res**  **(Hz)** |
| --- | --- | --- | --- | --- | --- |
| F1V | 15.57 | 60.5 | 0 | 0 | 0 |
| F4V | 15.11 | 354.8 | 0 | 0 | 0 |
| F7V | 12.19 | 1478.5 | 0 | 0 | 0 |
| F10V | 7.18 | 10660.65 | 0 | 0 | 0 |
| R1V | 16.11 | 1065.3 | 0 | 0 | 0 |
| R4V |  |  | 2.89 | 2 | 981-1597 |
| R7V |  |  | 3.23 | 24 | 1620-2216 |
| R10V |  |  | 3.11 | 98 | 1725-2395 |

* **sweep variable**

| **IR** | **pendiente**  **(dB/octava)** | **fr. corte**  **(Hz)** | **Q res** | **Gain res**  **(dB)** | **rango res**  **(Hz)** |
| --- | --- | --- | --- | --- | --- |
| F1V  max  mid  min | 16.59  16.47  16.14 | 73.55  78.65  93.36 | 0  0  0 | 0  0  0 | 0  0  0 |
| F4V  max  mid  min | 15.43  13.12  11.63 | 354.37  349.47  335.67 | 0  0  0 | 0  0  0 | 0  0  0 |
| F7V  max  mid  min | 15.19  14.01  11.39 | 2082.94  2033.64  1901.33 | 0  0  0 | 0  0  0 | 0  0  0 |
| F10V  max  mid  min | 7.29  11.94  9.07 | 10601.65  10001.95  8507.52 | 0  0  0 | 0  0  0 | 0  0  0 |
| R1V  max  mid  min | 18.21  13.67  12.76 | 1069.69  1044.99  1034.23 | 0  0  0 | 0  0  0 | 0  0  0 |
| R4V  max  mid  min |  |  | 4.02  3.62  3.33 | 2  2  2 | 1081-1399  1081-1429  1089-1500 |
| R7V  max  mid  min |  |  | 2.93  3.48  3.41 | 26  24  24 | 1480-2097  1543-2067  1532-2067 |
| R10V  max  mid  min |  |  | 3.03  3.36  2.70 | 109  139  166 | 1586-2232  1666-2248  1586-2311 |