

「フィルタ I」 データシート

| 定K形低域フィルタの各素子 | | | |
|---------------|----------|----------|--------------|
| | インダクタ | | 容量 |
| | L/2 [mH] | L/2 [mH] | C [μ F] |
| 計算値 | 11.9 | 11.9 | 0.0662 |
| 測定値 | 12.4 | 12.5 | 0.0681 |

| 定K形高域フィルタの各素子 | | | |
|---------------|--------|---------------|---------------|
| | インダクタ | 容量 | |
| | L [mH] | 2C [μ F] | 2C [μ F] |
| 計算値 | 4.78 | 0.0265 | 0.0265 |
| 測定値 | 4.46 | 0.0274 | 0.0274 |

| 定K形高域フィルタの各素子 | | | | | | |
|---------------|------------------------|------------------------|---------------------|----------------------------|----------------------------|---------------------------|
| | インダクタ | | | 容量 | | |
| | L ₁ /2 [mH] | L ₂ /2 [mH] | L ₂ [mH] | 2C ₁ [μ F] | 2C ₁ [μ F] | C ₂ [μ F] |
| 計算値 | 3.9 | 3.9 | 3.24 | 0.018 | 0.018 | 0.0217 |
| 測定値 | 3.85 | 3.84 | 3.4 | 0.0186 | 0.019 | 0.0217 |

入力電圧=1V一定

| 低域フィルタ 減衰率、位相差の測定 | | | |
|-------------------|----------|----------|-----------|
| 周波数 [kHz] | 出力電圧 [V] | 減衰量 [dB] | 位相差 [deg] |
| 0.1 | 0.9060 | -0.9 | -3.0 |
| 0.2 | 0.9030 | -0.9 | -5.0 |
| 0.4 | 0.9000 | -0.9 | -7.0 |
| 0.7 | 0.8990 | -0.9 | -11.0 |
| 1.0 | 0.9050 | -0.9 | -15.0 |
| 2.0 | 0.9230 | -0.7 | -29.0 |
| 2.5 | 0.9410 | -0.5 | -36.0 |
| 3.0 | 0.9660 | -0.3 | -44.0 |
| 3.5 | 0.9970 | 0.0 | -51.0 |
| 4.0 | 1.0420 | 0.4 | -59.0 |
| 5.0 | 1.1800 | 1.4 | -79.0 |
| 5.3 | 1.2300 | 1.8 | -87.0 |
| 6.0 | 1.3300 | 2.5 | -108.0 |
| 6.5 | 1.3200 | 2.4 | -128.0 |
| 7.0 | 1.2050 | 1.6 | -148.0 |
| 8.0 | 0.8210 | -1.7 | -180.0 |
| 10.0 | 0.3480 | -9.2 | -210.0 |
| 15.0 | 0.0896 | -21.0 | -234.0 |
| 20.0 | 0.0342 | -29.3 | -243.0 |
| 25.0 | 0.0173 | -35.2 | -249.0 |

入力電圧=1V一定

| 高域フィルタ 減衰率、位相差の測定 | | | |
|-------------------|----------|----------|-----------|
| 周波数 [kHz] | 出力電圧 [V] | 減衰量 [dB] | 位相差 [deg] |
| 3.0 | 0.0139 | -37.1 | 243.0 |
| 4.0 | 0.0337 | -29.4 | 237.0 |
| 7.0 | 0.2190 | -13.2 | 216.0 |
| 8.0 | 0.3510 | -9.1 | 207.0 |
| 9.5 | 0.6890 | -3.2 | 187.0 |
| 10.0 | 0.8430 | -1.5 | 179.0 |
| 10.5 | 1.0100 | 0.1 | 168.0 |
| 11.0 | 1.1800 | 1.4 | 157.0 |
| 12.0 | 1.4300 | 3.1 | 133.0 |
| 13.0 | 1.5200 | 3.6 | 113.0 |
| 15.0 | 1.4100 | 3.0 | 84.0 |
| 18.0 | 1.2400 | 1.9 | 64.0 |
| 20.0 | 1.1800 | 1.4 | 56.0 |
| 25.0 | 1.1000 | 0.8 | 43.0 |
| 40.0 | 1.0400 | 0.3 | 26.0 |
| 70.0 | 1.0300 | 0.3 | 14.0 |
| 100.0 | 1.0300 | 0.3 | 9.0 |

入力電圧=1V一定

| 高域フィルタ 減衰率、位相差の測定 | | | |
|-------------------|----------|----------|-----------|
| 周波数 [kHz] | 出力電圧 [V] | 減衰量 [dB] | 位相差 [deg] |
| 4.0 | 0.0136 | -37.33 | 243.0 |
| 7.0 | 0.1140 | -18.86 | 225.0 |
| 10.0 | 0.7900 | -2.05 | 172.0 |
| 10.3 | 0.9330 | -0.60 | 161.0 |
| 10.4 | 0.9840 | -0.14 | 157.0 |
| 10.5 | 1.0300 | 0.26 | 151.0 |
| 11.0 | 1.2100 | 1.66 | 130.0 |
| 12.0 | 1.2300 | 1.80 | 91.0 |
| 14.0 | 1.0300 | 0.26 | 51.0 |
| 17.0 | 0.9770 | -0.20 | 17.0 |
| 19.0 | 0.9720 | -0.25 | -2.0 |
| 20.0 | 0.9790 | -0.18 | -11.0 |
| 23.0 | 1.0000 | 0.00 | -35.0 |
| 25.0 | 1.0500 | 0.42 | -49.0 |
| 27.0 | 1.1400 | 1.14 | -65.0 |
| 30.0 | 1.3600 | 2.67 | -98.0 |
| 33.0 | 1.2900 | 2.21 | -148.0 |
| 35.0 | 0.9530 | -0.42 | -175.0 |
| 35.5 | 0.8660 | -1.25 | -181.0 |
| 36.0 | 0.7930 | -2.01 | -186.0 |
| 37.0 | 0.6580 | -3.64 | -194.0 |
| 40.0 | 0.3970 | -8.02 | -209.0 |
| 70.0 | 0.0325 | -29.76 | -246.0 |
| 90.0 | 0.0136 | -37.33 | -253.0 |

| | 抵抗 |
|-----|-----------------------------|
| | R ₀ [Ω] |
| 計算値 | 600 |
| 測定値 | 605 |

滑稽者