

chart updated 12/06/2021

Two tone IMD distortion 40 and 96hz

70db

| Driver | 56hz 2nd order IMD db down from 70 db | 136 hz 2nd order IMD | 176 hz 3rd order IMD | 232 3rd order IMD | 56hz 2nd order IMD in percent | 136 hz 2nd order IMD in % | 176 hz 3rd order IMD in % | 232hz 3rd order IMD in % | Total IMD in % | Voltage |
|-------------------------|---------------------------------------|----------------------|----------------------|-------------------|-------------------------------|---------------------------|---------------------------|--------------------------|----------------|---------|
| | fundamental | | | | | | | | | |
| Epique single coil | -39 | -44 | -43 | -46 | 1.12 | 0.63 | 0.71 | 0.50 | 1.55 | 1.929 |
| Purifi PTT6.SX04-NFA-01 | -46 | -43 | -38 | -46 | 0.50 | 0.71 | 1.26 | 0.50 | 1.61 | 1.29 |
| Dayton ps180 | -43 | -39 | -36 | -45 | 0.71 | 1.12 | 1.58 | 0.56 | 2.14 | 1.895 |
| DIYSG Anarchy 704 | -49 | -34 | -42 | -46 | 0.35 | 2.00 | 0.79 | 0.50 | 2.23 | |
| Epique in series | -33 | -45 | -40 | -44 | 2.24 | 0.56 | 1.00 | 0.63 | 2.59 | 2.2 |
| Wavecor SW182BD03 | -31 | -37 | -42 | -49 | 2.82 | 1.41 | 0.79 | 0.35 | 3.27 | 2.76 |

80db

| Driver | 56hz 2nd order IMD db down from 80 db | 136 hz 2nd order IMD | 176 hz 3rd order IMD | 232 3rd order IMD | 56hz 2nd order IMD in percent | 136 hz 2nd order IMD in % | 176 hz 3rd order IMD in % | 232hz 3rd order IMD in % | Total IMD in % | Voltage |
|-------------------------|---------------------------------------|----------------------|----------------------|-------------------|-------------------------------|---------------------------|---------------------------|--------------------------|----------------|---------|
| | fundamental | | | | | | | | | |
| Purifi PTT6.SX04-NFA-01 | -40 | -34 | -42 | | 1.00 | 1.00 | 2.00 | 0.79 | 2.57 | 3.9 |
| Epique in series | -49 | -30 | -43 | below noise | 0.35 | 3.16 | 0.71 | | 3.26 | 6.9 |
| Epique single coil | -31 | -31 | -43 | -46 | 2.82 | 2.82 | 0.71 | 0.50 | 4.08 | 6.07 |
| DIYSG Anarchy 704 | -34 | -25 | -25 | -39 | 2.00 | 5.62 | 5.62 | 1.12 | 8.28 | |
| Wavecor SW182BD03 | -24 | -32 | -26 | -49 | 6.31 | 2.51 | 5.01 | 0.35 | 8.44 | 8.06 |
| Dayton ps180 | -39 | -19 | -17 | -27 | 1.12 | 11.22 | 14.13 | 4.47 | 18.07 | 6.56 |

85db

| Driver | 56hz 2nd order IMD db down from 85 db | 136 hz 2nd order IMD | 176 hz 3rd order IMD | 232 3rd order IMD | 56hz 2nd order IMD in percent | 136 hz 2nd order IMD in % | 176 hz 3rd order IMD in % | 232hz 3rd order IMD in % | Total IMD in % | Voltage |
|-------------------------|---------------------------------------|----------------------|----------------------|-------------------|-------------------------------|---------------------------|---------------------------|--------------------------|----------------|-----------|
| | fundamental | | | | | | | | | |
| Purifi PTT6.SX04-NFA-01 | -47 | -33 | -28 | -47 | 0.45 | 2.24 | 3.98 | 0.45 | 4.61 | 7.54 |
| Epique in series | -36 | -25 | -40 | below noise | 1.58 | 5.62 | 1.00 | | 5.93 | 12.29 |
| Epique single coil | -29 | -25 | -41 | -46 | 3.55 | 5.62 | 0.89 | 0.50 | 6.73 | 20.49 |
| DIYSG Anarchy 704 | -33 | -19 | -21 | -33 | 2.24 | 11.22 | 8.91 | 2.24 | 14.67 | 90db 20.6 |
| Wavecor SW182BD03 | -19 | -17 | -15 | -39 | 11.22 | 14.13 | 17.78 | 1.12 | 25.33 | 14.9 |

Two tone IMD distortion 50 and 210 hz

70db

| Driver | 60hz 4nd order IMD db down from 70 db | 110 hz 3rd order IMD | 160 hz 2nd order IMD | 260 hz 2nd order IMD | 310 3rd order IMD | 60hz 4th order IMD in percent | 110 hz 3rd order IMD in % | 160 hz 2nd order IMD in % | 260hz 2nd order IMD in % | 310 3rd order IMD in % | Total IMD in % | Voltage |
|-------------------------|---------------------------------------|----------------------|----------------------|----------------------|-------------------|-------------------------------|---------------------------|---------------------------|--------------------------|------------------------|----------------|---------|
| | fundamental | | | | | | | | | | | |
| Purifi PTT6.SX04-NFA-01 | -36 | -52 | -52 | -46 | -46 | 1.58 | 0.25 | 0.25 | 0.50 | 0.50 | 1.77 | 306mV |
| DIYSG Anarchy 704 | -37 | -45 | -54 | -46 | -42 | 1.41 | 0.56 | 0.20 | 0.50 | 0.79 | 1.80 | |
| Dayton ps180 | -42 | -46 | -49 | -34 | -47 | 0.79 | 0.50 | 0.35 | 2.00 | 0.45 | 2.28 | .674V |
| Epique in series | -34 | -40 | -55 | -45 | -41 | 2.00 | 1.00 | 0.18 | 0.56 | 0.89 | 2.47 | 2.181 |
| Wavecor SW182BD03 | -38 | -49 | -46 | -33 | -49 | 1.26 | 0.35 | 0.50 | 2.24 | 0.35 | 2.66 | 2.096 |

80db

| Driver | 60hz 4nd order IMD db down from 80 db | 110 hz 3rd order IMD | 160 hz 2nd order IMD | 260 hz 2nd order IMD | 310 3rd order IMD | 60hz 4th order IMD in percent | 110 hz 3rd order IMD in % | 160 hz 2nd order IMD in % | 260hz 2nd order IMD in % | 310 3rd order IMD in % | Total IMD in % | Voltage |
|-------------------------|---------------------------------------|----------------------|----------------------|----------------------|-------------------|-------------------------------|---------------------------|---------------------------|--------------------------|------------------------|----------------|---------|
| | fundamental | | | | | | | | | | | |
| Purifi PTT6.SX04-NFA-01 | -50 | below noise | -55 | -41 | -46 | 0.32 | | 0.18 | 0.89 | 0.50 | 1.08 | 1.56 |
| Epique in series | -44 | -42 | below noise | -35 | -42 | 0.63 | 0.79 | | 1.78 | 0.794328 | 2.20 | 6.43 |
| DIYSG Anarchy 704 | -45 | -39 | -50 | -36 | -30 | 0.56 | 1.12 | 0.32 | 1.58 | 3.16 | 3.77 | |
| Wavecor SW182BD03 | -49 | -42 | -46 | -26 | -39 | 0.35 | 0.79 | 0.50 | 5.01 | 1.122018 | 5.23 | 6.23 |
| Dayton ps180 | -45 | -42 | -37 | -21 | -46 | 0.56 | 0.79 | 1.41 | 8.91 | 0.501187 | 9.09 | 2.23 |

90db

| Driver | 60hz 4nd order IMD db down from 90 db | 110 hz 3rd order IMD | 160 hz 2nd order IMD | 260 hz 2nd order IMD | 310 3rd order IMD | 60hz 4th order IMD in percent | 110 hz 3rd order IMD in % | 160 hz 2nd order IMD in % | 260hz 2nd order IMD in % | 310 3rd order IMD in % | Total IMD in % | Voltage |
|-------------------------|---------------------------------------|----------------------|----------------------|----------------------|-------------------|-------------------------------|---------------------------|---------------------------|--------------------------|------------------------|----------------|---------|
| | fundamental | | | | | | | | | | | |
| Purifi PTT6.SX04-NFA-01 | -43 | -40 | -51 | -33 | -36 | 0.71 | 1.00 | 0.28 | 2.24 | 1.58 | 3.02 | 5.08 |
| Epique in series | -46 | -41 | -55 | -25 | -25 | 0.50 | 0.89 | 0.18 | 5.62 | 5.62 | 8.02 | 26.51 |
| DIYSG Anarchy 704 | -31 | -33 | -39 | -26 | -21 | 2.82 | 2.24 | 1.12 | 5.01 | 8.91 | 10.90 | |
| Wavecor SW182BD03 | -35 | -16 | -33 | -26 | -23 | 1.78 | 15.85 | 2.24 | 5.01 | 7.08 | 18.29 | 18.97 |
| Dayton ps180 | -45 | -31 | -26 | -9 | -33 | 0.56 | 2.82 | 5.01 | 35.48 | 2.24 | 36.02 | 7.39 |

Two tone IMD distortion 60 and 144 hz

80db

| Driver | 84hz 2nd order IMD db down from 80 db | 108 hz 5th order IMD | 204 hz 2nd order IMD | 228 3rd order IMD | 264 3rd order IMD | 348hz 3rd order IMD | 84hz 2nd order IMD in percent | 108 hz 5th order IMD | 204 hz 2nd order IMD | 228 3rd order IMD | 264 3rd order IMD | 348hz 3rd order IMD in % | Total IMD in % | Voltage |
|-------------------------|---------------------------------------|----------------------|----------------------|-------------------|-------------------|---------------------|-------------------------------|----------------------|----------------------|-------------------|-------------------|--------------------------|----------------|---------|
| | fundamental | | | | | | | | | | | | | |
| Purifi PTT6.SX04-NFA-01 | -56 | -58 | -55 | -59 | -56 | -50 | 0.16 | 0.13 | 0.18 | 0.11 | 0.16 | 0.32 | 0.46 | 2.544 |
| Epique in series | -52 | -45 | below noise | below noise | -46 | below noise | 0.25 | 0.56 | | | 0.50 | | 0.79 | 2.7 |
| Dayton ps180 | -48 | below noise | -33 | below noise | -37 | below noise | 0.40 | | 2.24 | | 1.41 | | 2.68 | 1.513 |
| Wavecor SW182BD03 | -44 | -30 | -47 | -50 | -42 | -47 | 0.63 | 3.16 | 0.45 | 0.32 | 0.79 | 0.45 | 3.40 | 2.049 |
| DIYSG Anarchy 704 | -56 | -30 | -44 | -35 | -29 | -43 | 0.16 | 3.16 | 0.63 | 1.78 | 3.55 | 0.71 | 5.16 | 2.019 |

90db

| Driver | 84hz 2nd order IMD db down from 90 db | 108 hz 5th order IMD | 204 hz 2nd order IMD | 228 3rd order IMD | 264 3rd order IMD | 348hz 3rd order IMD | 84hz 2nd order IMD in percent | 108 hz 5th order IMD | 204 hz 2nd order IMD | 228 3rd order IMD | 264 3rd order IMD | 348hz 3rd order IMD in % | Total IMD in % | Voltage |
|-------------------------|---------------------------------------|----------------------|----------------------|-------------------|-------------------|---------------------|-------------------------------|----------------------|----------------------|-------------------|-------------------|--------------------------|----------------|---------|
| | fundamental | | | | | | | | | | | | | |
| Purifi PTT6.SX04-NFA-01 | -55 | -52 | -45 | -49 | -50 | -55 | 0.18 | 0.25 | 0.56 | 0.35 | 0.32 | 0.18 | 0.82 | 8.15 |
| Epique in series | -42 | -40 | -50 | below noise | -44 | below noise | 0.79 | 1.00 | 0.32 | | 0.63 | | 1.46 | 8.64 |
| Wavecor SW182BD03 | -40 | -29 | -40 | -48 | -48 | -56 | 1.00 | 3.55 | 0.18 | 0.40 | 0.40 | 0.16 | 3.74 | 6.48 |
| DIYSG Anarchy 704 | -51 | -30 | -36 | -33 | -27 | -40 | 0.28 | 3.16 | 1.58 | 2.24 | 4.47 | 1.00 | 6.21 | 6.96 |
| Dayton ps180 | -38 | below noise | -24 | -40 | -25 | -53 | 1.26 | | 6.31 | 1.00 | 5.62 | 0.22 | 8.61 | 4.7 |

Two tone IMD distortion 75and 180 hz

80db

| Driver | 45hz 4nd order IMD db down from 80 db | 105hz 2nd order IMD | 255 hz 2nd order IMD | 285 3rd order IMD | 330 3rd order IMD | 45 hz 2nd order IMD in percent | 105 hz 5th order IMD | 255 hz 2nd order IMD | 285 hz 3rd order IMD | 330 hz 3rd order IMD | Total IMD in % | Voltage |
|-------------------------|---------------------------------------|---------------------|----------------------|-------------------|-------------------|--------------------------------|----------------------|----------------------|----------------------|----------------------|----------------|---------|
| | fundamental | | | | | | | | | | | |
| Purifi PTT6.SX04-NFA-01 | -57 | -56 | -54 | -52 | -48 | 0.14 | 0.16 | 0.20 | 0.25 | 0.40 | 0.55 | 1.5 |
| Wavecor SW182BD03 | -51 | -53 | -60 | -45 | -65 | 0.28 | 0.22 | 0.10 | 0.56 | 0.06 | 0.68 | 1.82 |
| Dayton ps180 | -56 | -45 | -40 | -55 | -59 | 0.16 | 0.56 | 1.00 | 0.18 | 0.11 | 1.18 | 1.109 |
| DIYSG Anarchy 704 | -49 | -53 | -39 | -32 | -38 | 0.35 | 0.22 | 1.12 | 2.51 | 1.26 | 3.05 | 2.01 |
| Epique in series | -46 | -50 | -35 | -28 | -31 | 0.50 | 0.32 | 1.78 | 3.98 | 2.82 | 5.23 | 3.15 |

90db

| Driver | 45hz 4nd order IMD db down from 90 db | 105hz 2nd order IMD | 255 hz 2nd order IMD | 285 3rd order IMD | 330 3rd order IMD | 45 hz 2nd order IMD in percent | 105 hz 5th order IMD | 255 hz 2nd order IMD | 285 hz 3rd order IMD | 330 hz 3rd order IMD | Total IMD in % | Voltage |
|-------------------------|---------------------------------------|---------------------|----------------------|-------------------|-------------------|--------------------------------|----------------------|----------------------|----------------------|----------------------|----------------|---------|
| | fundamental | | | | | | | | | | | |
| Wavecor SW182BD03 | -60 | -49 | -44 | -50 | -56 | 0.10 | 0.35 | 0.63 | 0.32 | 0.16 | 0.81 | 6.25 |
| Purifi PTT6.SX04-NFA-01 | -41 | -52 | -46 | -52 | -45 | 0.89 | 0.25 | 0.50 | 0.25 | 0.56 | 1.22 | 5.07 |
| Dayton ps180 | -56 | -36 | -31 | -49 | -51 | 0.16 | 1.58 | 2.82 | 0.35 | 0.28 | 3.27 | 3.4 |
| DIYSG Anarchy 704 | -39 | -46 | -40 | -30 | -36 | 1.12 | 0.50 | 1.00 | 3.16 | 1.58 | 3.88 | 6.8 |
| Epique in series | -49 | -41 | -35 | -30 | -32 | 0.35 | 0.89 | 1.78 | 3.16 | 2.51 | 4.52 | 9.37 |

Harmonic distortion test drive levels

| | | | | | |
|-----------|------|---------|--|---------------|-------|
| Epique | | 80 db | | | |
| | 80hz | 1.02V | | 2.0 V 85db | 100db |
| | 100 | 2.89V | | 2. V 78 db | 43.4 |
| | 125 | 2.08V | | 80db | 17.6 |
| Epique | | 80 db | | | |
| | 80hz | 1.5V | | 2.83 V 85db | 19.62 |
| | 100 | 2.63V | | 2.83V 80db | 31.3 |
| | 125 | 1.69V | | 2.8V 85 | 19.62 |
| Dayton ps | | 80 db | | | 100db |
| | 80hz | 1.025 | | 2.83 V 89.5db | 8.92 |
| | 100 | 429.9mV | | 2.83V 96db | 4.339 |
| | 125 | .713V | | 2.8V 92db | 6.024 |
| Wavecor | | 80 db | | | |
| | 80hz | 1.2 | | 2.0V 83db | 12.12 |
| | 100 | 2.9 | | 2.0V 77db | 40V |
| | 125 | .86V | | 2.0 V86db | 7.63V |
| Anarchy | | 80 db | | | |
| | 80hz | 1.175 | | 2.0V 84db | 12.2 |
| | 100 | 2.06 | | 2.0V 80db | 19.6 |
| | 125 | 0.855 | | 2.0 V86db | 9.39 |

Wavecor SW182 50 and 210hz IMD