Graphical user interface, application

Description automatically generated

Graphical user interface, application, Word, PowerPoint

Description automatically generated

Task1:

|  |  |  |
| --- | --- | --- |
|  | Lm158 | Lm358B |
| total supply max | 32 | 36 |
| GBW(typ) MHz | 0.7 | 1.2 |
| Slew rate (V/us) | 0.3 | 0.5 |
| Offset voltage (max mV) | 5 | 3 |
| Iq per channel (mA) | 0.35 | 0.3 |
| Rating | Military | Catalogue |
| Operating temperature (C) | -55 to 125 | -40 to 85 |
| Offset drift (Typ) (uV/C) | 7 | 3.5 |
| Features | None | Cost Optimized, EMI Hardened, Standard Amps |

Task2:

Chart, line chart

Description automatically generated

Task 3:

Graphical user interface, application

Description automatically generated

74.8 kHz

With both 10k ohms : 634 kHz

Graphical user interface, application, table, Excel

Description automatically generated

Task 7 :

Graphical user interface, chart, application, line chart

Description automatically generated

R1.1k

Graphical user interface, chart, line chart

Description automatically generated

Task7.2

Graphical user interface, chart, application, line chart

Description automatically generated

1.2 k it fails

Graphical user interface, chart, line chart

Description automatically generated

Graphical user interface, chart

Description automatically generated

Task 6

1k

502.18/250 = 2.00

10k

2.77/0.25 = 11

Graphical user interface, chart, line chart

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Graphical user interface

Description automatically generated

Gain of ~2.5

Theoretical 11,2