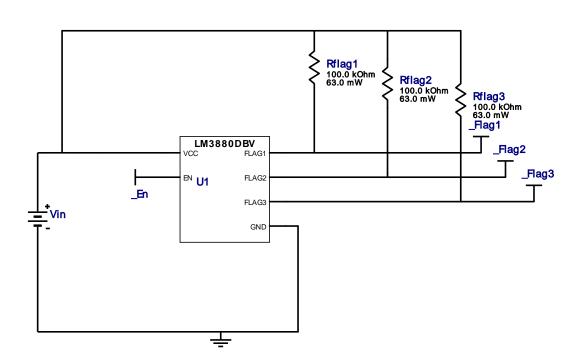


WEBENCH® Design Report

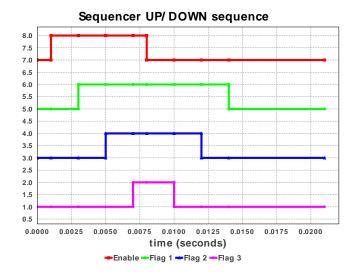
VinMin = 14.0V VinMax = 22.0V Vout = 3.3V Iout = 2.0A Device = LM3880MF-1AE/NOPB Topology = SEQUENCER Created = 9/23/16 2:28:28 AM BOM Cost = \$0.48 BOM Count = 4 Total Pd = 0.0W

Design: 4800906/1 LM3880MF-1AE/NOPB Design: 1 - LM3880MF-1AE/NOPB



## **Electrical BOM**

| #  | Name   | Manufacturer      | Part Number                        | Properties   | Qty | Price  | Footprint                    |
|----|--------|-------------------|------------------------------------|--|-----|--------|------------------------------|
| 1. | Rflag1 | Vishay-Dale       | CRCW0402100KFKED<br>Series= CRCWe3 | Res= 100.0 kOhm<br>Power= 63.0 mW<br>Tolerance= 1.0% | 1   | \$0.01 | 0402 3 mm <sup>2</sup>       |
| 2. | Rflag2 | Vishay-Dale       | CRCW0402100KFKED<br>Series= CRCWe3 | Res= 100.0 kOhm<br>Power= 63.0 mW<br>Tolerance= 1.0% | 1   | \$0.01 | 0402 3 mm <sup>2</sup>       |
| 3. | Rflag3 | Vishay-Dale       | CRCW0402100KFKED<br>Series= CRCWe3 | Res= 100.0 kOhm<br>Power= 63.0 mW<br>Tolerance= 1.0% | 1   | \$0.01 | 0402 3 mm <sup>2</sup>       |
| 4. | U1     | Texas Instruments | LM3880MF-1AE/NOPB                  | Switcher   | 1   | \$0.45 | R-PDSO-G6 10 mm <sup>2</sup> |



## **Operating Values**

| #   | Name                                      | Value                | Category | Description                             |
|-----|---|----------------------|----------|---|
| 1.  | BOM Count                                 | 4                    | General  | Total Design BOM count                  |
| 2.  | FootPrint                                 | 19.0 mm <sup>2</sup> | General  | Total Foot Print Area of BOM components |
| 3.  | Total BOM                                 | \$0.48               | General  | Total BOM Cost                          |
| 4.  | Total Pd                                  | 75.0 μW              | Power    | Total Power Dissipation                 |
| 5.  | Flag Voltage                              | 3.0 V                |          | Flag Voltage                            |
| 6.  | Flag1 Down delay<br>(From EN high to low) | 6.0 ms               |          | Flag Delay                              |
| 7.  | Flag1 Up delay (From EN low to high)      | 2.0 ms               |          | Flag Delay                              |
| 8.  | Flag2 Down delay<br>(From EN high to low) | 4.0 ms               |          | Flag Delay                              |
| 9.  | Flag2 Up delay (From EN low to high)      | 4.0 ms               |          | Flag Delay                              |
| 10. | Flag3 Down delay<br>(From EN high to low) | 2.0 ms               |          | Flag Delay                              |
| 11. | Flag3 Up delay (From EN low to high)      | 6.0 ms               |          | Flag Delay                              |
| 12. | Flags Used                                | 2.0                  |          | Flags Used                              |
| 13. | Total Flags                               | 3.0                  |          | Total Flags                             |
| 14. | Vcc                                       | 3.0 V                |          | Vcc                                     |

## **Design Inputs**

| # | Name      | Value  | Description         |  |  |  |  |
|---|-----------|--------|---------------------|--|--|--|--|
| 5 | . base_pn | LM3880 | Base Product Number |  |  |  |  |

## Design Assistance

1. LM3880 Product Folder: http://www.ti.com/product/LM3880: contains the data sheet and other resources.

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