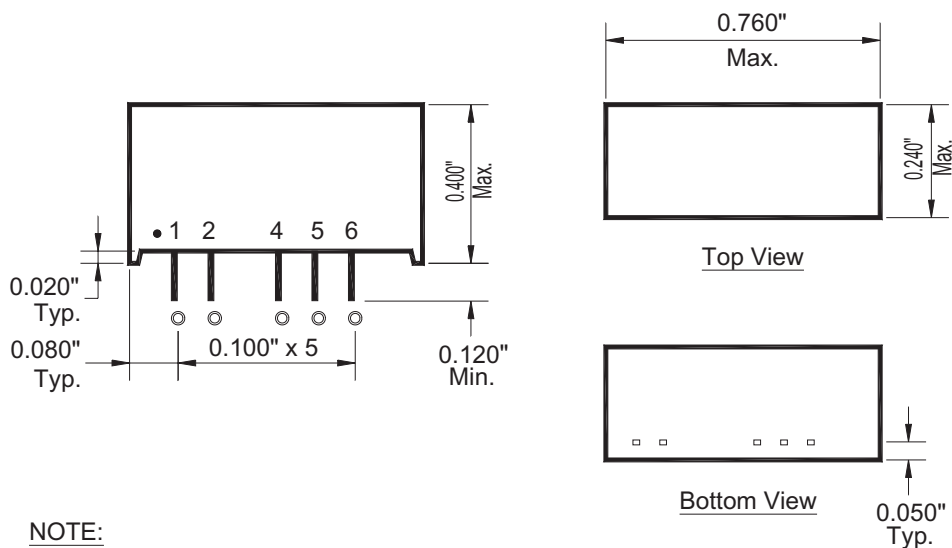




# Series

| PART NUMBER | INPUT VOLTAGE | OUTPUT VOLTAGE | OUTPUT CURRENT | EFFICIENCY |
|-------------|---------------|----------------|----------------|------------|
| MSB - 0505  | 5 VDC         | 5 VDC          | 200 mA         | 70 %       |
| MSB - 0509  |               | 9 VDC          | 111 mA         | 75 %       |
| MSB - 0512  |               | 12 VDC         | 84 mA          | 80 %       |
| MSB - 0515  |               | 15 VDC         | 66 mA          | 82 %       |
| MS - 0505D  |               | ±5 VDC         | ±100 mA        | 70 %       |
| MS - 0509D  |               | ±9 VDC         | ±56 mA         | 75 %       |
| MS - 0512D  |               | ±12 VDC        | ±42 mA         | 78 %       |
| MS - 0515D  |               | ±15 VDC        | ±33 mA         | 80 %       |
| MSB - 1205  |               | 12 VDC         | 5 VDC          | 200 mA     |
| MSB - 1209  | 9 VDC         |                | 111 mA         | 75 %       |
| MSB - 1212  | 12 VDC        |                | 84 mA          | 80 %       |
| MSB - 1215  | 15 VDC        |                | 66 mA          | 82 %       |
| MS - 1205D  | ±5 VDC        |                | ±100 mA        | 70 %       |
| MS - 1209D  | ±9 VDC        |                | ±56 mA         | 75 %       |
| MS - 1212D  | ±12 VDC       |                | ±42 mA         | 78 %       |
| MS - 1215D  | ±15 VDC       |                | ±33 mA         | 80 %       |
| MSB - 1505  | 15 VDC        |                | 5 VDC          | 200 mA     |
| MSB - 1509  |               | 9 VDC          | 111 mA         | 75 %       |
| MSB - 1512  |               | 12 VDC         | 84 mA          | 80 %       |
| MSB - 1515  |               | 15 VDC         | 66 mA          | 82 %       |
| MS - 1505D  |               | ±5 VDC         | ±100 mA        | 70 %       |
| MS - 1509D  |               | ±9 VDC         | ±56 mA         | 75 %       |
| MS - 1512D  |               | ±12 VDC        | ±42 mA         | 78 %       |
| MS - 1515D  |               | ±15 VDC        | ±33 mA         | 80 %       |
| MSB - 2405  |               | 24 VDC         | 5 VDC          | 200 mA     |
| MSB - 2409  | 9 VDC         |                | 111 mA         | 75 %       |
| MSB - 2412  | 12 VDC        |                | 84 mA          | 80 %       |
| MSB - 2415  | 15 VDC        |                | 66 mA          | 82 %       |
| MS - 2405D  | ±5 VDC        |                | ±100 mA        | 70 %       |
| MS - 2409D  | ±9 VDC        |                | ±56 mA         | 75 %       |
| MS - 2412D  | ±12 VDC       |                | ±42 mA         | 78 %       |
| MS - 2415D  | ±15 VDC       |                | ±33 mA         | 80 %       |

**MSB= Single Output**  
**MS= Dual Output**



**NOTE:**

\*TERMINAL 0.020" x 0.010" FLAT PIN

**NOTE:**

All specifications typical and nominal / full load and 25°C unless otherwise noted.  
 Avoid sustained operation in overload or dead short conditions.  
 Specifications subject to changes without notice.

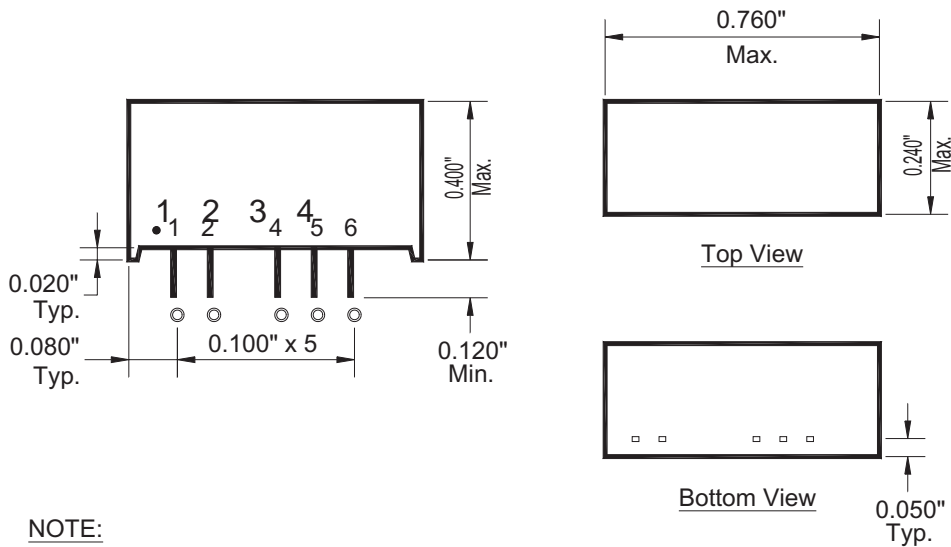
**MS / MSB SERIES**

| Pin Connections |         |         |
|-----------------|---------|---------|
| PIN             | MSB     | MS      |
| 1               | +INPUT  | +INPUT  |
| 2               | -INPUT  | -INPUT  |
| 4               | -OUTPUT | -OUTPUT |
| 5               | NO PIN  | COMMON  |
| 6               | +OUTPUT | +OUTPUT |

# Series

| PART NUMBER | INPUT VOLTAGE | OUTPUT VOLTAGE | OUTPUT CURRENT | EFFICIENCY |
|-------------|---------------|----------------|----------------|------------|
| MSM - 0305  | 3.3 VDC       | 5 VDC          | 100 mA         | 70 %       |
| MSM - 0309  |               | 9 VDC          | 56 mA          | 70 %       |
| MSM - 0312  |               | 12 VDC         | 42 mA          | 72 %       |
| MSM - 0315  |               | 15 VDC         | 33 mA          | 75 %       |
| MSM - 0503  | 5 VDC         | 3.3 VDC        | 152 mA         | 70 %       |
| MSM - 0505  |               | 5 VDC          | 200 mA         | 70 %       |
| MSM - 0509  |               | 9 VDC          | 111 mA         | 75 %       |
| MSM - 0512  |               | 12 VDC         | 84 mA          | 78 %       |
| MSM - 0515  | 12VDC         | 15 VDC         | 66 mA          | 80 %       |
| MSM - 1205  |               | 5 VDC          | 200 mA         | 70 %       |
| MSM - 1209  |               | 9 VDC          | 111 mA         | 75 %       |
| MSM - 1212  | 15 VDC        | 12 VDC         | 84 mA          | 78 %       |
| MSM - 1215  |               | 15 VDC         | 66 mA          | 80 %       |
| MSM - 1505  |               | 5 VDC          | 200 mA         | 70 %       |
| MSM - 1509  | 24 VDC        | 9 VDC          | 111 mA         | 75 %       |
| MSM - 1512  |               | 12 VDC         | 84 mA          | 78 %       |
| MSM - 1515  |               | 15 VDC         | 66 mA          | 80 %       |
| MSM - 2405  | 24 VDC        | 5 VDC          | 200 mA         | 70 %       |
| MSM - 2409  |               | 9 VDC          | 111 mA         | 75 %       |
| MSM - 2412  |               | 12 VDC         | 84 mA          | 78 %       |
| MSM - 2415  |               | 15 VDC         | 66 mA          | 80 %       |

## MSM - Single Output



### MSM SERIES

| Pin Connections |        |
|-----------------|--------|
| Pin#            | Single |
| 1               | GND    |
| 2               | VCC    |
| 3               | OV     |
| 4               | +V     |

#### NOTE:

\*TERMINAL 0.020" x 0.010" FLAT PIN

#### NOTE:

All specifications typical and nominal / full load and 25°C unless otherwise noted.  
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