

**IB Series** IBxxxxS-xW 1KVDC Isolation 1W~2W Regulated single output SIP7 PIN**Input Volt.****5, 9, 12, 15, 24 VDC****Output Volt.****3.3, 5, 9, 12, 15 VDC**

Other specifications required, please inquire us for details.

**Technical Parameters**

All the parameters below are tested at TA=25° C, nominal input voltage, rated output current.

**Input Parameters**

|             |                   |
|-------------|-------------------|
| Volt. Range | +/- 5 %           |
| Filter      | Ceramic-capacitor |

**Isolation Parameters**

|                       |                     |
|-----------------------|---------------------|
| Rated Isolation Volt. | 1000 VDC            |
| Leak current          | <1 m A              |
| Resistance            | 10 <sup>9</sup> Ohm |
| Capacitor             | 60 pF TYP.          |

**Output Parameters**

|                               |  |
|-------------------------------|--|
| Volt. Precision               | +/- 2 %, max.  |
| ( 20 MHz BW) Ripple&Noise     | 150mV p-p, max.                                      |
| Continuous short-circuit time | Output over load and short-circuit protection (>20s) |
| Linear volt. Calibration      | +/- 1,2 % / 1,0 % of Vin                             |
| Load volt. Calibration        | +/- 8 %, load = 20 ~ 100 %                           |
| Temperature index             | +/- 0,02 % / °C                                      |

**General Parameters**

|                     |                   |
|---------------------|-------------------|
| Efficiency          | 65% to 85 %       |
| Switching Frequency | 60~125 KHz, type. |

**Environmental Parameters**

|                                 |                                      |
|---------------------------------|--------------------------------------|
| Operating Temp. (environmental) | - 40° C to + 85° C                   |
| Storage Temp.                   | - 55 °C to + 125 °C                  |
| Reducing rated value            | See temperature derating graph below |
| Humidity                        | ≤ 90 %, Non-compression              |
| Colling method                  | Natural Free-air                     |

**Dimension**

|                  |  |
|------------------|--|
| SIP Package size | 1W : 19.6 x6.0 x10.0 mm      2W : 19.6 x7.0 x10.0 mm |
|                  | 0.77 x 0.24 x 0.39 inch      0.77 x 0.28 x 0.39 inch |
|                  | 2.0 g~3.5 g  |

**Weight****External Package Material**

Non-conductive flame-retardant black plastics

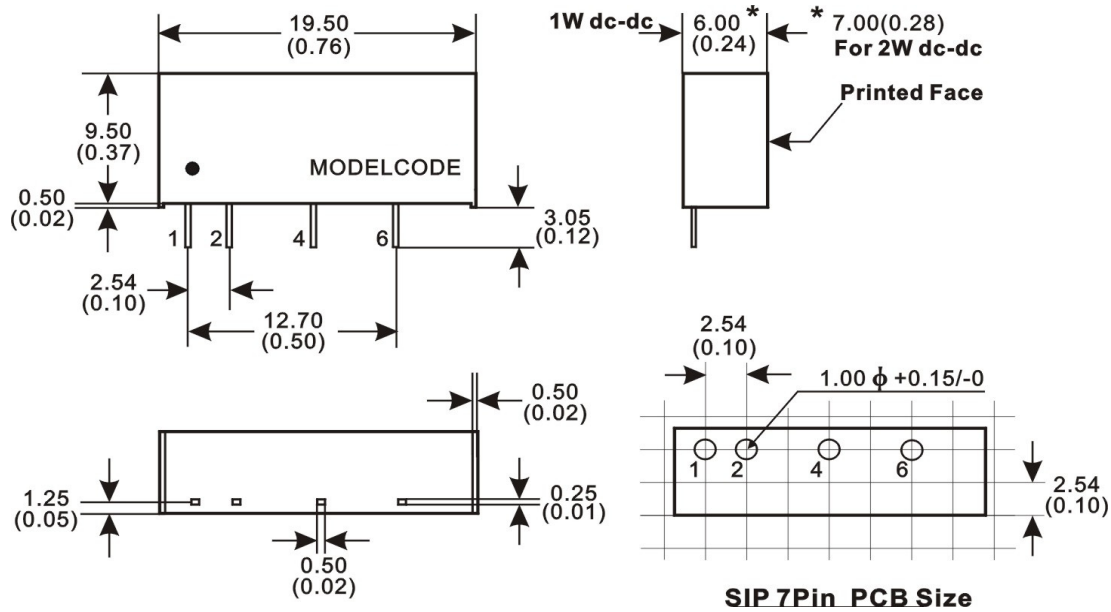
**Typical Product List:** (The parameters below are collected at 8 hours full-load aging test.)

| Model No.  | Input Volt. Vin(VDC) | Input Current Empty load (mA) | Input Current Full load (mA) | Output Volt. Vout(VDC) | Output Current (max.mA) | Efficiency Full load (%TYPE) |
|------------|----------------------|-------------------------------|------------------------------|------------------------|-------------------------|------------------------------|
| IB0305S-1W | 3.3                  | 50                            | 481                          | 5                      | 200                     | 63                           |
| IB0505S-1W | 5                    | 28                            | 294                          | 5                      | 200                     | 68                           |
| IB0512S-1W | 5                    | 26                            | 298                          | 12                     | 84                      | 67                           |
| IB1203S-1W | 12                   | 22                            | 128                          | 3.3                    | 300                     | 65                           |
| IB1205S-1W | 12                   | 16                            | 120                          | 5                      | 200                     | 69                           |
| IB1212S-1W | 12                   | 12                            | 116                          | 12                     | 84                      | 72                           |
| IB1215S-1W | 12                   | 11                            | 115                          | 15                     | 67                      | 72                           |
| IB2405S-1W | 24                   | 10                            | 60                           | 5                      | 200                     | 69                           |

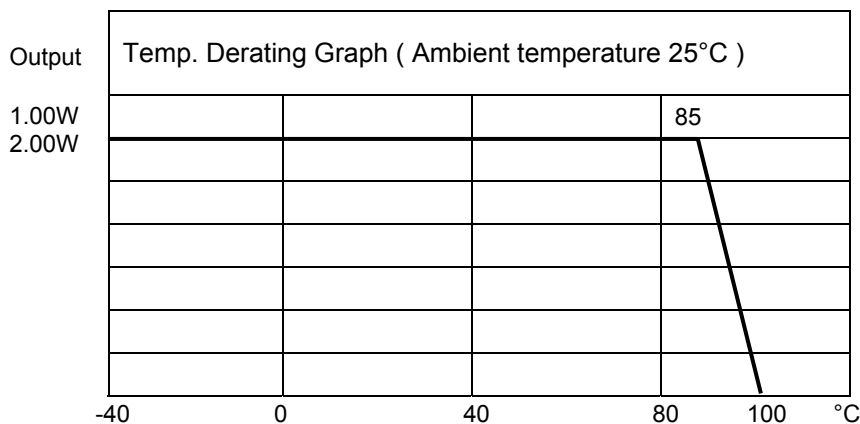


| Model No.  | Input Volt. Vin(VDC) | Input Current Empty load (mA) | Input Current Full load (mA) | Output Volt. Vout(VDC) | Output Current (max.mA) | Efficiency Full load (%TYPE) |
|------------|----------------------|-------------------------------|------------------------------|------------------------|-------------------------|------------------------------|
| IB2409S-1W | 24                   | 9                             | 60                           | 9                      | 111                     | 69                           |
| IB2412S-1W | 24                   | 8                             | 59                           | 12                     | 84                      | 71                           |
| IB2415S-1W | 24                   | 7                             | 57                           | 15                     | 67                      | 73                           |
| IB0505S-2W | 5                    | 45                            | 580                          | 5                      | 400                     | 69                           |
| IB0509S-2W | 5                    | 42                            | 571                          | 9                      | 200                     | 70                           |
| IB1205S-2W | 12                   | 25                            | 222                          | 5                      | 400                     | 75                           |
| IB1209S-2W | 12                   | 23                            | 216                          | 9                      | 200                     | 77                           |
| IB1212S-2W | 12                   | 21                            | 213                          | 12                     | 167                     | 78                           |
| IB2405S-2W | 24                   | 10                            | 119                          | 5                      | 400                     | 70                           |
| IB2412S-2W | 24                   | 9                             | 104                          | 12                     | 167                     | 80                           |
| IB2415S-2W | 24                   | 8                             | 99                           | 15                     | 133                     | 84                           |

External Dimension & PCB Installation:



Temperature Derating Graph and PIN Definition



| Pin | Function        |
|-----|-----------------|
| 1   | + Vin Input +   |
| 2   | - Vin Input -   |
| 3   |                 |
| 4   | - Vout Output - |
| 5   |                 |
| 6   | + Vout Output + |
| 7   |                 |

\* Note: the product design and specification are subject to change without notice.