



# IB SERIES

## 1000VDC REGULATED SINGLE OUTPUT 1WATT DC-DC CONVERTER

### FEATURES

- 7 PIN SIP PACKAGE.
- 1000VDC ISOLATION.
- OUTPUT REGULATION < 1.5%.
- UL 94V-0 PACKAGE MATERIAL.

### GENERAL SPECIFICATIONS

- OUTPUT RIPPLE (20MHz Band limited) : 60mVp-p MAX
- ISOLATION RESISTANCE :100M $\Omega$  MIN @500VDC
- SWITHINGFREQUENCY :80KHz TYP.
- OPERATING TEMPERATURE :0  $^{\circ}$ C TO 70 $^{\circ}$ C
- EFFICIENCY(5V) :60% TYP,50%MIN
- EFFICIENCY(9V,12V,15V) :70 % TYP,55%MIN
- ISOLATION VOLTAGE :1000 VDC

### ELECTRICAL SPECIFICATIONS

- INPUT VOLTAGE RANGE : $\pm$ 5%
- OUTPUT VOLTAGE TOLERANCE : $\pm$ 5%
- LINE REGULATION(10% TO 100% F.L.) :0.25%/1% OF Vin
- LOAD REGULATION(10% TO 100% F.L.) :0.9%TYP. 1.5%MAX

#### 5v and 12v input types

#### 24V and 48V input types

| PART NUMBER | OUTPUT VOLTAGE (VDC) | OUTPUT CURRENT (mA) | EFFICIENCY (% TYP.) | PACKAGE STYLE | PART NUMBER | OUTPUT VOLTAGE (VDC) | OUTPUT CURRENT (mA) | EFFICIENCY (% TYP.) | PACKAGE STYLE |
|-------------|----------------------|---------------------|---------------------|---------------|-------------|----------------------|---------------------|---------------------|---------------|
| IBXX05S-1W  | 5                    | 200                 | 60                  | 1             | IBXX05S-1W  | 5                    | 200                 | 60                  | 2             |
| IBXX09S-1W  | 9                    | 111                 | 65                  | 1             | IBXX09S-1W  | 9                    | 111                 | 65                  | 2             |
| IBXX12S-1W  | 12                   | 83                  | 70                  | 1             | IBXX12S-1W  | 12                   | 83                  | 70                  | 2             |
| IBXX15S-1W  | 15                   | 67                  | 72                  | 1             | IBXX15S-1W  | 15                   | 67                  | 72                  | 2             |
| IBXX05S-1W  | 5                    | 200                 | 60                  | 3             | IBXX05S-1W  | 5                    | 200                 | 60                  | 4             |
| IBXX09S-1W  | 9                    | 111                 | 65                  | 3             | IBXX09S-1W  | 9                    | 111                 | 65                  | 4             |
| IBXX12S-1W  | 12                   | 83                  | 70                  | 3             | IBXX12S-1W  | 12                   | 83                  | 70                  | 4             |
| IBXX15S-1W  | 15                   | 67                  | 72                  | 3             | IBXX15S-1W  | 15                   | 67                  | 72                  | 4             |

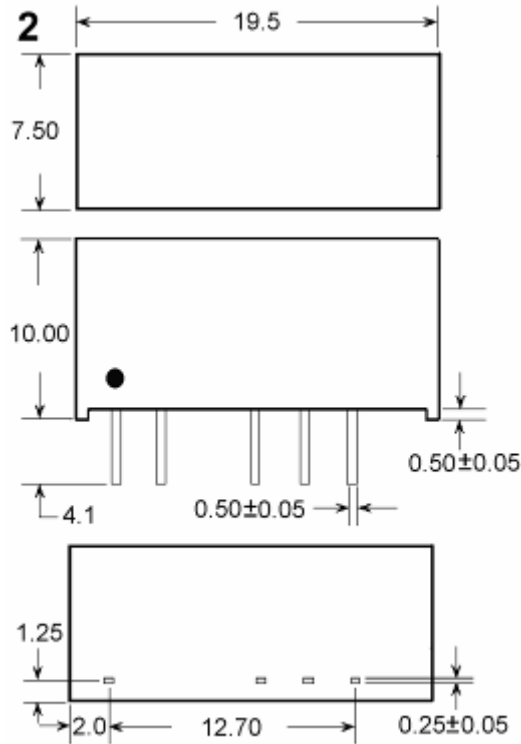
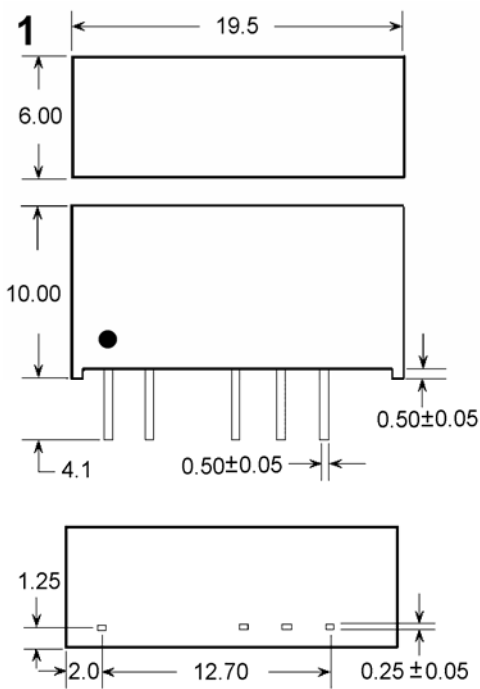


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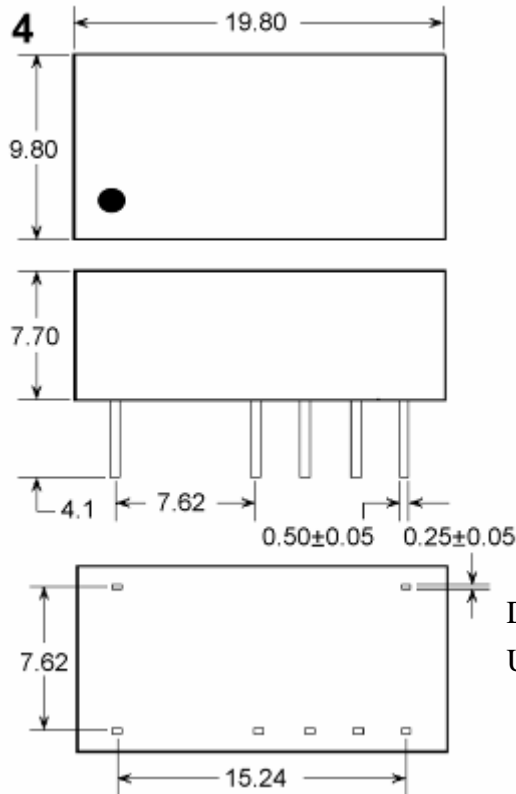
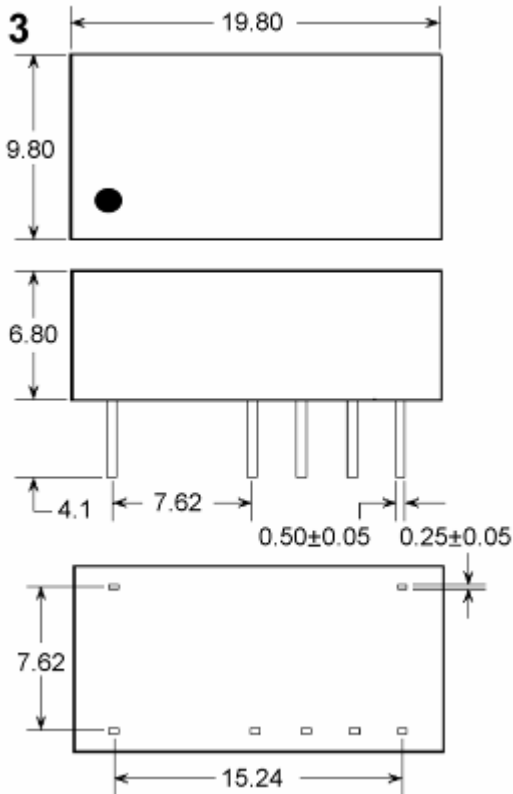
## MARKINGS AND DIMENSIONS

## PIN CONNECTION



| PIN | 7 PIN    |
|-----|----------|
| 1   | +INPUT   |
| 2   | -INPUT   |
| 4   | -OUTPUT  |
| 5   | CTRL     |
| 6   | +VOUTPUT |

Dimensions: inches/mm  
Unless otherwise specified,  
all tolerances are  
±.005/±0.13



| PIN | 14 PIN  |
|-----|---------|
| 1   | -INPUT  |
| 9   | +OUTPUT |
| 10  | CTRL    |
| 11  | -OUTPUT |
| 14  | +INPUT  |

Dimensions: inches/mm  
Unless otherwise specified,  
all tolerances are  
±.005/±0.13