



## Features

- Single Output
- SIP or DIP Package
- 1000V DC Isolation
- Small Package Sizes
- -40°C to +85°C Operation

## Specification

### Input

Input Voltage Range	: Nominal $\pm 10\%$
Input Reflected Ripple Current	: 20mA pk-pk (through 12 $\mu$ H inductor 5Hz to 20MHz)
Input Reverse Voltage Protection	: None

### Output

Output Voltage	: See table
Minimum Load	: None <sup>(1)</sup>
Line Regulation	: 1.2% / 1% $\Delta V_{in}$
Load Regulation	: 10% for a 20-100% load change <sup>(1)</sup>
Setpoint Accuracy	: $\pm 3\%$
Ripple & Noise	: 100mV pk-pk max, 20MHz bandwidth
Temperature Coefficient	: 0.02% / °C
Maximum Capacitive Load	: 220 $\mu$ F

### General

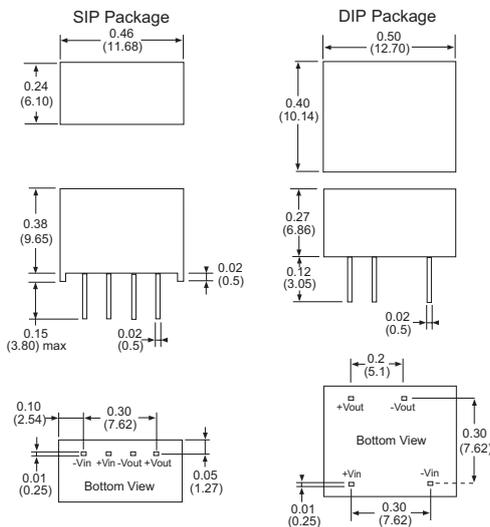
Efficiency	: See table
Isolation Voltage	: 1000V DC minimum
Isolation Resistance	: 10 <sup>9</sup> $\Omega$
Isolation Capacitance	: 60 pF typical
Switching Frequency	: 40-150KHz variable
MTBF	: >1.1Mhrs to MIL-HDBK-217F at 25°C, GB

### Environmental

Operating Temperature	: -40°C to +85°C
Storage Temperature	: -40°C to +125°C
Case Temperature	: 100°C max
Cooling	: Convection-cooled

Input Voltage	No Load Input Current	Output Voltage	Output Current	Efficiency	Model Number	Description
5V DC	25mA	5V	200mA	75%	MCE05S05D	DC/DC Converter, 1W, Single O/P
	25mA	5V	200mA	75%	MCE05S05S	
	25mA	12V	84mA	78%	MCE05S12D	
	25mA	12V	84mA	78%	MCE05S12S	
	25mA	15V	66mA	78%	MCE05S15D	
	25mA	15V	66mA	78%	MCE05S15S	
12V DC	16mA	5V	200mA	75%	MCE12S05D	
	16mA	5V	200mA	75%	MCE12S05S	
	16mA	12V	84mA	80%	MCE12S12D	
	16mA	12V	84mA	80%	MCE12S12S	
	16mA	15V	66mA	78%	MCE12S15D	
	16mA	15V	66mA	78%	MCE12S15S	
24V DC	10mA	5V	200mA	75%	MCE24S05D	
	10mA	5V	200mA	75%	MCE24S05S	
	10mA	12V	84mA	80%	MCE24S12D	
	10mA	12V	84mA	80%	MCE24S12S	
	10mA	15V	66mA	78%	MCE24S15D	
	10mA	15V	66mA	78%	MCE24S15S	

## Mechanical Details



### Notes

1. Operation at no load will not damage unit but it may not meet all specifications
2. All dimensions in inches (mm)
3. Pin pitch tolerance:  $\pm 0.014$  ( $\pm 0.35$ )
4. Case tolerance:  $\pm 0.02$  ( $\pm 0.5$ )
5. Weight: SIP 0.003 lbs (1.4 g), DIP 0.004 lbs (1.8 g)

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