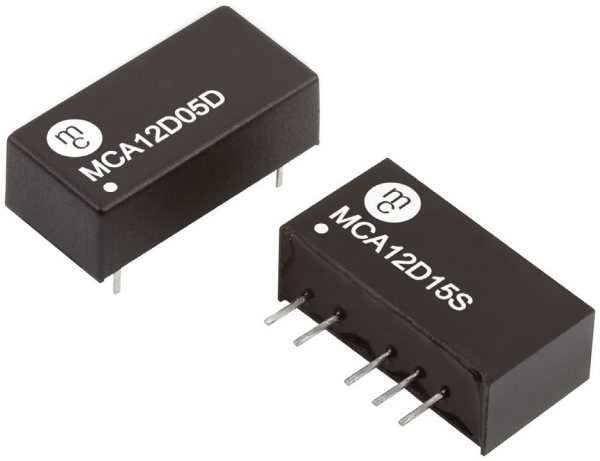
DC/DC Converters



Features

- Dual Output
- SIP or DIP Package
- Industry Standard Pinout
- 1000 VDC Isolation
- -40°C to +85°C Operation
- MTBF >1.1 MHrs

Specification

Input

Input Voltage Range	: Nominal ± 10%
Input Reflected Ripple Current	: 20mA pk-pk (through 12µH inductor 5Hz to 20MHz)
Input ReverseVoltage Protection	: None

Output

Output Voltage	: See table
Minimum Load	: None(2)
Line Regulation	: 1.2% / 1% Δ Vin
Load Regulation	: 10% 20-100% load change
Setpoint Accuracy	: ±3%
Ripple & Noise	: 75mV pk-pk max, 20MHz bandwidth
Temperature Coefficient	: 0.02% / °C
Maximum Capacitive Load	: ±100µF

General

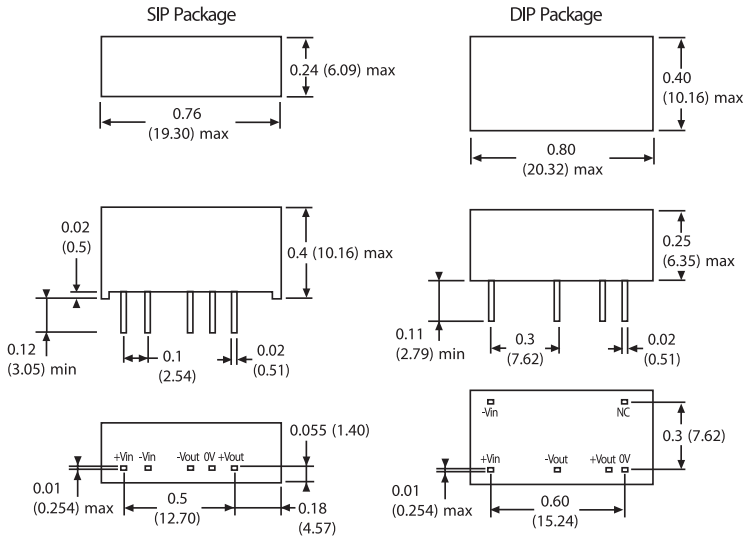
Efficiency	: See table
Isolation Voltage	: 1000V DC min
Isolation Resistance	: $10^9\Omega$
Isolation Capacitance	: 60pF typical
Switching Frequency	: Variable, 80KHz typical
MTBF	: >1.12MHrs to MIL-HDBK-217F at 25°C, GB

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	Output Voltage	Output Current	Efficiency	Model Number	Description
5V DC	±5.0V	±100mA	74%	MCA05D05D	DC/DC Converter, 1W, Dual O/P
	±5.0V	±100mA	74%	MCA05D05S	
	±12.0V	±42mA	78%	MCA05D12D	
	±12.0V	±42mA	78%	MCA05D12S	
	±15.0V	±33mA	80%	MCA05D15D	
	±15.0V	±33mA	80%	MCA05D15S	
12V DC	±5.0V	±100mA	75%	MCA12D05D	
	±5.0V	±100mA	75%	MCA12D05S	
	±12.0V	±42mA	78%	MCA12D12D	
	±12.0V	±42mA	78%	MCA12D12S	
	±15.0V	±33mA	80%	MCA12D15D	
	±15.0V	±33mA	80%	MCA12D15S	
24V DC	±5.0V	±100mA	74%	MCA24D05D	
	±5.0V	±100mA	74%	MCA24D05S	
	±12.0V	±42mA	78%	MCA24D12D	
	±12.0V	±42mA	78%	MCA24D12S	
	±15.0V	±33mA	78%	MCA24D15D	
	±15.0V	±33mA	78%	MCA24D15S	

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: ±0.014 (±0.35)
4. Case tolerance ±0.02 (±0.5)
5. Weight: SIP 0.006 lbs (2.6 g), DIP 0.005 lbs (2.3 g)

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