

Unregulated  
 Case style: DIP 16

## COMMERCIAL DC/DC Converters

0,30 Watt / 2,25 Watt  
 Series: MD16

### Electrical specifications:

Input voltage range: +/- 10%  
 Output voltage accuracy: +/- 5% \*\*  
 Line Voltage regulation: +/- 1,2% / 1% of Vin max.  
 Load Voltage regulation: 5V output type 15% max.  
 (10% to 100% full load) 9V ~ 24V output types 10% max.

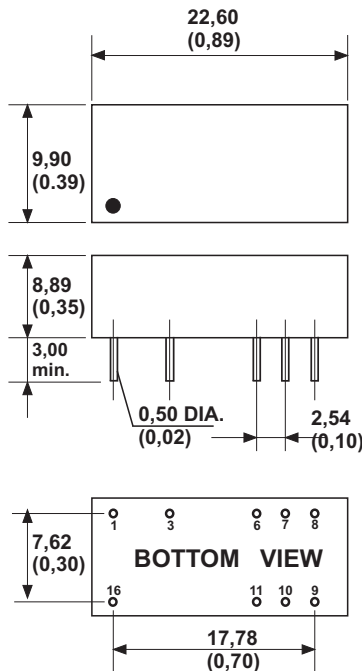
Efficiency: min. 70%  
 Output Ripple & Noise: typ. 50mVp-p  
 Short circuit protection: 1.0 second  
 Operating temperature: -40°C to +85°C  
 Isolation voltage: min. 1000V DC

\*\* Note: Measured @25°C with the condition  
 of Vin = nominal and full load

### CAUTION: NO INPUT POLARITY CHANGE ALLOWED!

0,3 Watt				2,25 Watt			
Part - No. Single Output	Input Voltage	Output Voltage	Output Current	Part - No. Single Output	Input Voltage	Output Voltage	Output Current
MD16-0505A	5V	5V	60mA	MD16-0505	5V	5V	450mA
MD16-0509A		9V	33mA	MD16-0509		9V	250mA
MD16-0512A		12V	25mA	MD16-0512		12V	188mA
MD16-0515A		15V	20mA	MD16-0515		15V	150mA
MD16-1205A	12V	5V	60mA	MD16-1205	12V	5V	450mA
MD16-1209A		9V	33mA	MD16-1209		9V	250mA
MD16-1212A		12V	25mA	MD16-1212		12V	188mA
MD16-1215A		15V	20mA	MD16-1215		15V	150mA
MD16-1505A	15V	5V	60mA	MD16-1505	15V	5V	450mA
MD16-1509A		9V	33mA	MD16-1509		9V	250mA
MD16-1512A		12V	25mA	MD16-1512		12V	188mA
MD16-1515A		15V	20mA	MD16-1515		15V	150mA
MD16-2405A	24V	5V	60mA	MD16-2405	24V	5V	450mA
MD16-2409A		9V	33mA	MD16-2409		9V	250mA
MD16-2412A		12V	25mA	MD16-2412		12V	188mA
MD16-2415A		15V	20mA	MD16-2415		15V	150mA

### Any other input & output voltages available



### PIN CONNECTION:

PIN	SINGLE	PIN	SINGLE A
1 & 16	+ IN	3	- IN
6 & 11	- Vout	8	- Vout
7 & 10	+ Vout	9	+ Vout
8 & 9	- IN	16	+ IN

Add "A" to the end of Partnumber.  
 For example MD16-0505A 0,3Watt.

ALL DIMENSIONS IN MM (INCHES)  
 MILLIMETERS +/- 0,25mm  
 (INCHES +/- 0,01")  
 All pins on a 2,54mm pitch.

Note: Input and output capacitor  
 4,7µF - 10µF recommended.  
 Dot denotes pin 1

Specification may be changed without notice  
 please contact office for verification

We can offer EMC - Filter  
 according to EN55011/22 Class B.