

# 1.5kVrms DC/DC Converter

6 Pin SMD or DIL Isolation Modules



## Product Features:

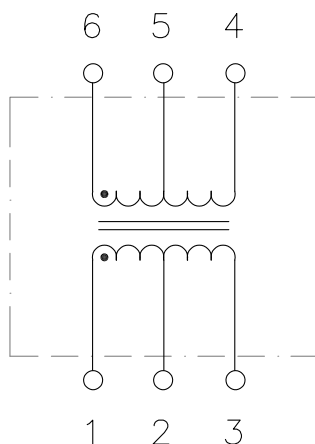
- Provide the isolation and voltage outputs required for small, low cost DC/DC converter circuits.
- Designed specifically for use with the Maxim™ MAX253, MAX845, and MAX3535/MXL1535 drivers
- Isolation Voltage: 1,500 Vrms. Other packages are available with isolation voltages up to 4.5KVrms.
- UL60950 and EN60950 approved.
- Temperature Range: -40 to +85°C

| SMD<br>Part Number | DIL<br>Part Number | Turns Ratio ( $\pm 3\%$ )<br>PRI : SEC | PRI LL<br>( $\mu\text{H}$ Typ.) | PRI OCL<br>( $\mu\text{H}$ Typ.) | PRI DCR<br>( $\Omega$ Max.) | ET Constant<br>(V- $\mu\text{s}$ Min.) |
|--------------------|--------------------|----------------------------------------|---------------------------------|----------------------------------|-----------------------------|----------------------------------------|
| TGM-210NSLF        | TDM-210NELF        | 2CT:1CT                                | 0.40                            | 960                              | 0.8                         | 11                                     |
| TGM-220NSLF        | TDM-220NELF        | 8CT:3CT                                | 0.40                            | 960                              | 0.8                         | 11                                     |
| TGM-230NSLF        | TDM-230NELF        | 4CT:3CT                                | 0.40                            | 960                              | 0.8                         | 11                                     |
| TGM-240NSLF        | TDM-240NELF        | 3CT:4CT                                | 0.40                            | 960                              | 0.8                         | 11                                     |
| TGM-250NSLF        | TDM-250NELF        | 1CT:1CT                                | 0.40                            | 960                              | 0.8                         | 11                                     |
| TGM-280NSLF        | TDM-280NELF        | 3CT:8CT                                | 0.40                            | 960                              | 0.8                         | 11                                     |

## Notes:

1. Primary Pins: 1-3
2. 2kV isolation transformers available – contact factory
3. For more information, pertaining to the MAX845 please contact Maxim at (408) 737-7600.
4. Maxim is a registered trademark of Maxim Integrated Products.

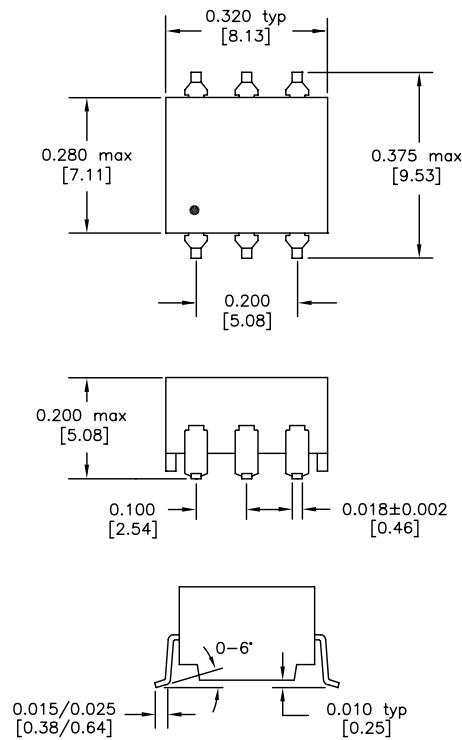
## Schematic



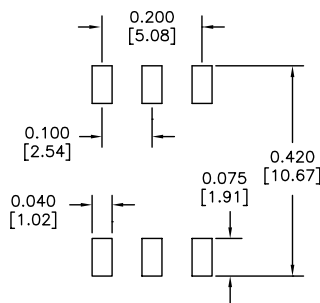
# 6 Pin, 1.5kVrms DC/DC Converter Isolation Modules

## SMD Package (NS)

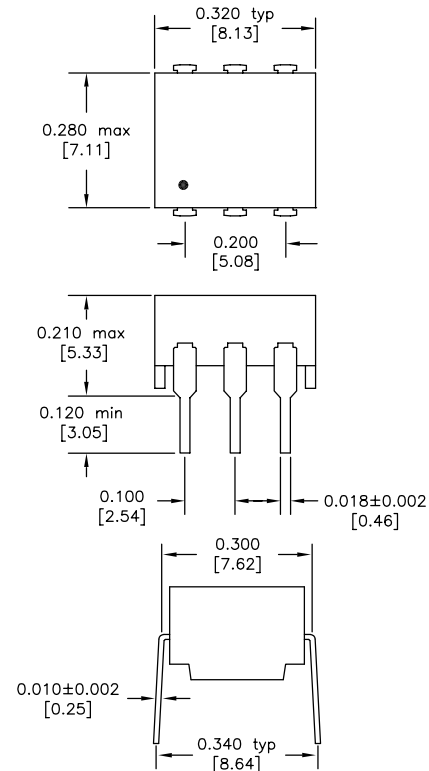
## DIL Package (NE)



Dimensions: inches [mm]  
Co-Planarity: 0.004 [0.10]



Recommended  
Solder Pad Dimensions



US Patent Numbers for SMD Devices  
5,656,985 6,297,721 B1  
6,297,720 B1 6,320,489 B1  
6,344,785 B1 6,662,431 B1

**HALO**  
ELECTRONICS, INC.

2880 Lakeside Drive #116  
Santa Clara, CA 95054  
(650) 903-3800

[www.haloelectronics.com](http://www.haloelectronics.com)

HALO® Electronics is a leading supplier of high quality communication magnetics including signal transformers, filters, CMR chokes, PoE power transformers, DC/DC converters, and integrated Ethernet connectors. HALO's leading edge technology solutions are manufactured in ISO9001 and ISO14001 factories offering high quality products at a competitive price.

© Copyright 2014 HALO Electronics, Inc. All rights reserved.

Revised 5/2014 Download the latest version at [www.haloelectronics.com/pdf/discrete-dc2dc-6pin15kv.pdf](http://www.haloelectronics.com/pdf/discrete-dc2dc-6pin15kv.pdf)

# Maxim MAX253/MAX845

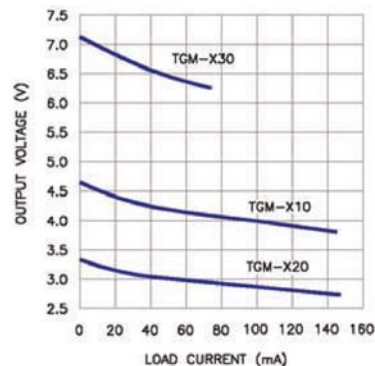
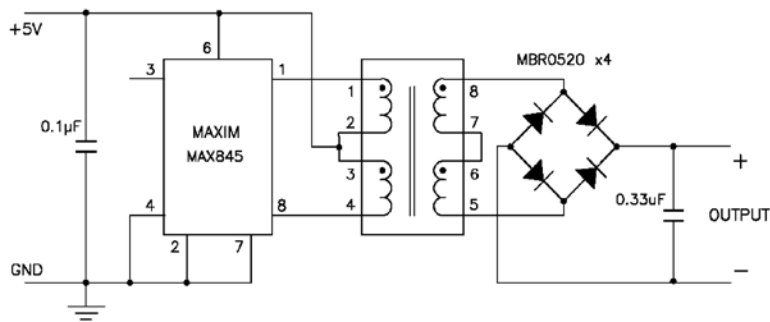
## DC/DC Converter Application Note



The TDM and TGM series of transformers have been designed specifically for use with the Maxim™ MAX253 and MAX845 monolithic oscillator/power driver with 3.3V or 5V power source. Multiple output voltages can be achieved depending on the diode circuit and transformer selected. For more information, pertaining to the MAX253/MAX845 please contact Maxim at (408) 737-7600. Maxim is a registered trademark of Maxim Integrated Products.

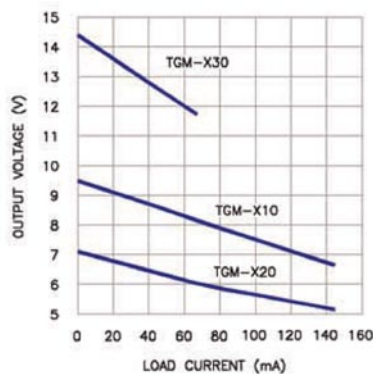
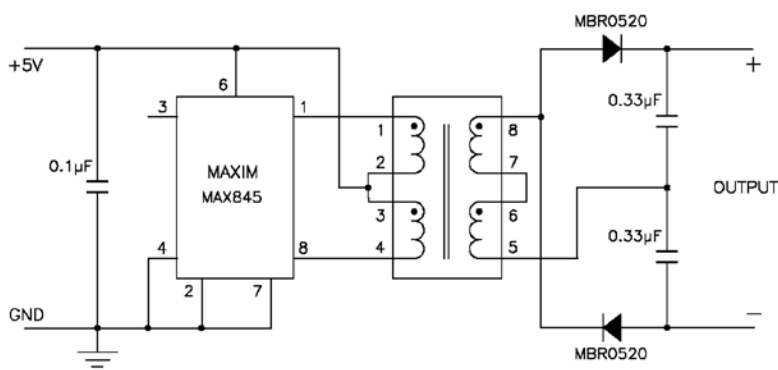
### Bridge Rectifier Circuit

### Output Voltages



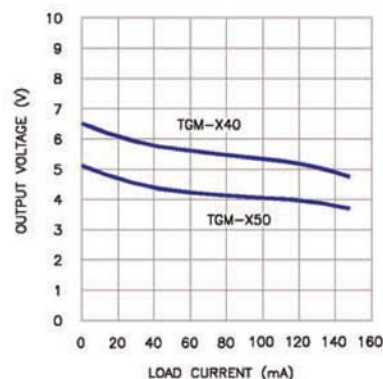
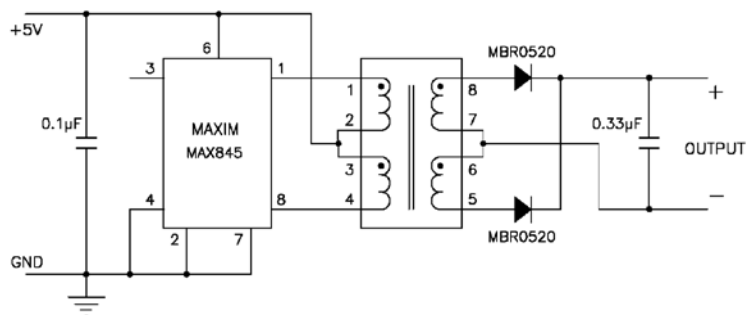
### Doubler Circuit

### Output Voltages



### Full Wave Rectifier Circuit

### Output Voltages



# AMEYA360

Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit [www.ameya360.com](http://www.ameya360.com)

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd  
Minhang District, Shanghai , China

➤ Sales :

Direct      +86 (21) 6401-6692  
  
Email        amall@ameya360.com  
  
QQ          800077892  
  
Skype        ameyasales1 ameyasales2

➤ Customer Service :

Email        service@ameya360.com

➤ Partnership :

Tel          +86 (21) 64016692-8333  
  
Email        mkt@ameya360.com