

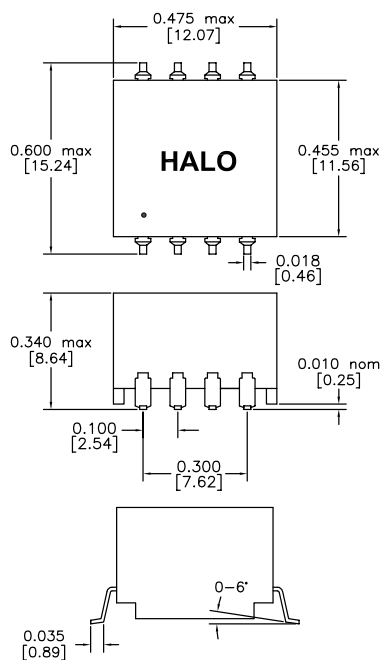
HALO ELECTRONICS, INC. 8 Pin, 4.5KVrms DC/DC Converter Isolation Modules

The TGM-NF, reinforced insulation, 8 pin transformers provide the isolation and voltage outputs required for low cost DC/DC converter circuits. UL1950, IEC950 and EN60950 recognized. Designed specifically for use with the Maxim™ MAX253 and MAX845 monolithic oscillator/power drivers with 3.3V or 5V power source. Smaller packages are available for lower isolation voltage applications. For more information, pertaining to the MAX845 please contact Maxim at (408) 737-7600. Maxim is a registered trademark of Maxim Integrated Products.



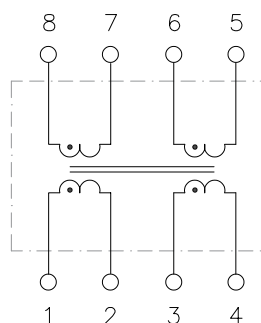
8 Pin, 4.5KVrms DC/DC Converter Isolation Modules

NF Package



DIMENSIONS: Inch [mm]
 CO-PLANARITY: 0.004 [0.10]

Circuit Diagram



Patented Construction

US Pat Nbrs: 5,656,985 6,297,721 B1
 6,297,720 B1 6,320,489 B1
 6,344,785 B1 6,662,431 B1

Electrical Specifications @ 25°C

Operating Temp: -40 to +85°C
 Pri DCR: 0.8Ω
 Pri OCL (1-4, tie 2-3): 500μH typ



Part Number	Turns Ratio (±3%) PRI:SEC	ET Constant Vμs Min	Isolation Vrms
TGM-410NF	2CT:1CT	18	4,500
TGM-420NF	8CT:3CT	18	4,500
TGM-430NF	4CT:3CT	18	4,500
TGM-440NF	3CT:4CT	18	4,500
TGM-450NF	1CT:1CT	18	4,500

HALO

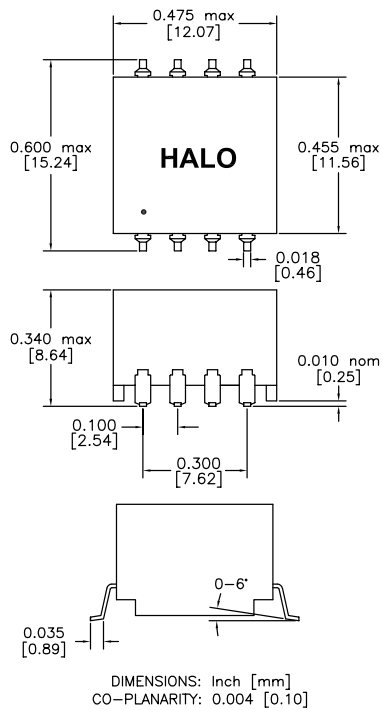
8 Pin, RoHS 4.5KVrms DC/DC
ELECTRONICS, INC. Converter Isolation Modules

The TGM-NF, reinforced insulation, 8 pin transformers provide the isolation and voltage outputs required for low cost DC/DC converter circuits. UL1950, IEC950 and EN60950 recognized. Designed specifically for use with the Maxim™ MAX253 and MAX845 monolithic oscillator/power drivers with 3.3V or 5V power source. Smaller packages are available for lower isolation voltage applications. For more information, pertaining to the MAX845 please contact Maxim at (408) 737-7600. Maxim is a registered trademark of Maxim Integrated Products.

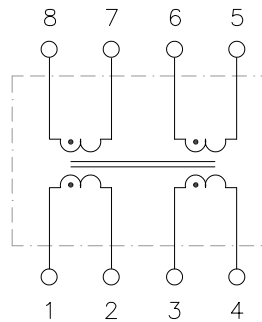


8 Pin, RoHS 4.5KVrms DC/DC
Converter Isolation Modules

NF Package



Circuit Diagram



Patented Construction

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Electrical Specifications @ 25°C

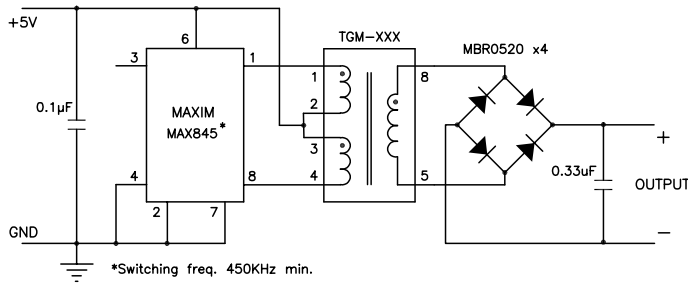
Operating Temp: -40 to +85°C
Pri DCR: 0.8Ω
Pri OCL (1-4, tie 2-3): 500μH typ



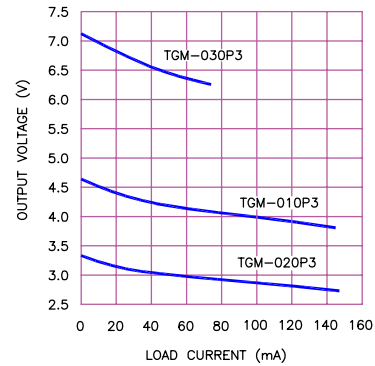
Part Number	Turns Ratio (±3%) PRI:SEC	ET Constant Vμs Min	Isolation Vrms
TGM-410NFRL	2CT:1CT	11	4,500
TGM-420NFRL	8CT:3CT	11	4,500
TGM-430NFRL	4CT:3CT	11	4,500
TGM-440NFRL	3CT:4CT	11	4,500
TGM-450NFRL	1CT:1CT	11	4,500

The 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.

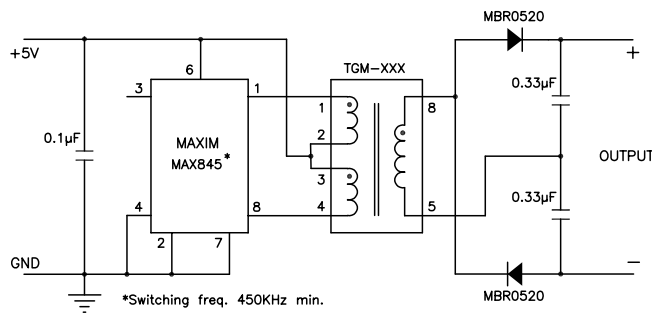
Bridge Rectifier Circuit



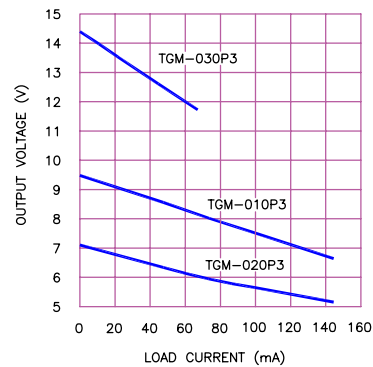
Output Voltages



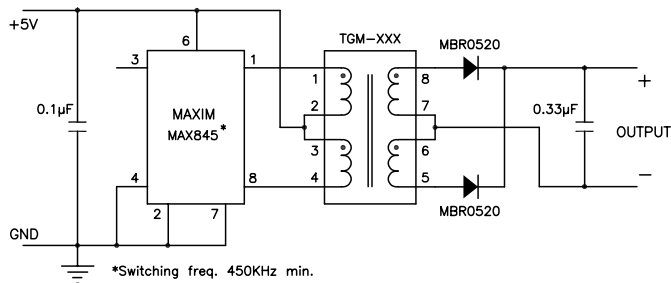
Doubler Circuit



Output Voltages



Full Wave Rectifier Circuit



Output Voltages

