

# 3kVrms DC/DC Converter

6 pin "Lead Free" Isolation Modules



## Product Features:

- Provides the isolation and voltage outputs required for low cost DC/DC converter circuits.
- Designed specifically for use with the Maxim™ MAX253, MAX845, and MAX3535 drivers.
- Isolation voltage is 3,000Vrms and working voltage up to 300V. Other packages are available with isolation voltages ranging from 500V to 5KVrms.
- UL60950, EN60950 and DEMKO recognized
- Temperature Range: -40 to +85°C

| Part Number  | Turns Ratio $\pm 3\%$<br>PRI : SEC | OCL<br>( $\mu\text{H}$ Typical) | PRI DCR<br>( $\Omega$ Max) | PRI ET Constant<br>(V- $\mu\text{s}$ Min.) |
|--------------|------------------------------------|---------------------------------|----------------------------|--|
| TGMR-310V6LF | 1CT:0.5CT                          | 500                             | 0.8                        | 18   |
| TGMR-320V6LF | 1CT:0.375CT                        | 500                             | 0.8                        | 18   |
| TGMR-330V6LF | 1CT:0.75CT                         | 500                             | 0.8                        | 18   |
| TGMR-340V6LF | 1CT:1.33CT                         | 800                             | 0.9                        | 22   |
| TGMR-350V6LF | 1CT:1CT                            | 800                             | 0.9                        | 22   |
| TGMR-355V6LF | 1CT:1.5CT                          | 800                             | 0.9                        | 22   |
| TGMR-360V6LF | 1CT:2CT                            | 800                             | 0.9                        | 22   |
| TGMR-370V6LF | 1CT:1.6CT                          | 800                             | 0.9                        | 22   |
| TGMR-380V6LF | 1CT:2.66CT                         | 800                             | 0.9                        | 22   |

## Notes:

Primary Pins are 1-3.

For more information, pertaining to the Maxim drivers please contact Maxim at (408) 737-7600.

Maxim is a registered trademark of Maxim Integrated Products.

## Schematic



# 6 Pin, 3kVrms "Lead Free" DC/DC Converter Isolation Module

## V6 Package



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



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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.

# 3kVrms DC/DC Converter

6 pin SMD RoHS Compliant Isolation Modules



## Product Features:

- Provides the isolation and voltage outputs required for low cost DC/DC converter circuits.
- Designed specifically for use with the Maxim™ MAX253, MAX845, and MAX3535 drivers.
- Isolation voltage is 3,000Vrms. Other packages are available with isolation voltages ranging from 500Vrms to 5KVrms.
- UL60950, EN60950 recognized
- Temperature Range: -40 to +85°C

| SMD Part Number | Turns Ratio $\pm 3\%$<br>PRI : SEC | PRI OCL<br>( $\mu\text{H}$ Typical) | PRI DCR<br>( $\Omega$ Max.) | PRI ET Constant<br>(V- $\mu\text{s}$ Min.) |
|-----------------|------------------------------------|-------------------------------------|-----------------------------|--|
| TGM-310NARL     | 1CT:0.5CT                          | 570                                 | 0.8                         | 11   |
| TGM-320NARL     | 1CT:0.375CT                        | 570                                 | 0.8                         | 11   |
| TGM-330NARL     | 1CT:0.75CT                         | 570                                 | 0.8                         | 11   |
| TGM-340NARL     | 1CT:1.33CT                         | 400                                 | 0.8                         | 11   |
| TGM-350NARL     | 1CT:1CT                            | 400                                 | 0.8                         | 11   |
| TGM-360NARL     | 1CT:2CT                            | 400                                 | 0.8                         | 11   |
| TGM-380NARL     | 1CT:2.66CT                         | 400                                 | 0.5                         | 11   |

## Notes:

Primary Pins are 1-3.

For more information, pertaining to the Maxim drivers please contact Maxim at (408) 737-7600.

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## Schematic



# 6 Pin, 3kVrms RoHS Compliant DC/DC Converter Isolation Module

## TGM-NA SMD Package



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

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

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