

# 4kV Reinforced Isolation Transformer



Reinforced Insulation Isolation Modules for DC/DC Converter Circuits



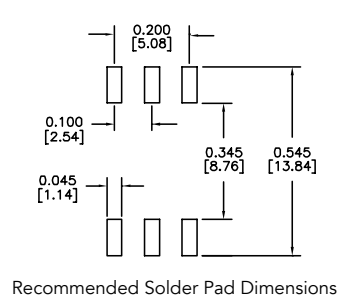
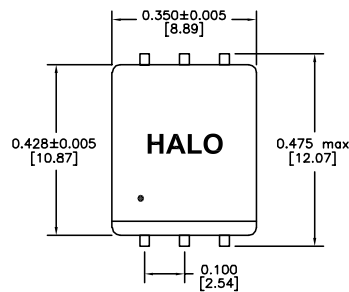
## Product Features:

- Designed for Isolated Push-Pull DC/DC Circuits
- Cost-Effective Reinforced Transformer
- UL60950/UL62368 Recognized for Reinforced Insulation
- Minimum 4mm Clearance/Creepage Distance for 300VAC Working Voltages

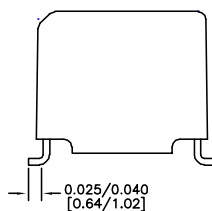
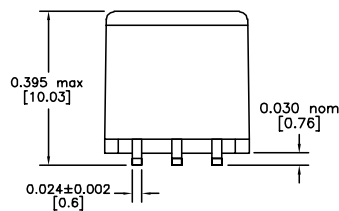
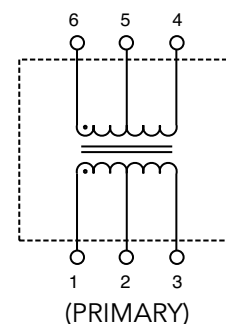
Part Number	Turns Ratio	Input Current (PRI max)	PRI OCL ( $\mu\text{H}$ typ)	PRI DCR ( $\Omega\text{max}$ )	Isolation Voltage (Vrms)	ET Constant (PRI min)	Temp. Range
TGRDC-F10V5LF	1CT:0.5CT	300mA	600	0.8	4,000	22V- $\mu\text{s}$	-40 to +85°C
TGRDC-F30V5LF	1CT:0.75CT	300mA	384	0.7	4,000	18V- $\mu\text{s}$	-40 to +85°C
TGRDC-F40V5LF	1CT:1.33CT	300mA	600	0.8	4,000	22V- $\mu\text{s}$	-40 to +85°C
TGRDC-F50V5LF	1CT:1CT	300mA	600	0.8	4,000	22V- $\mu\text{s}$	-40 to +85°C
TGRDC-F55V5LF	1CT:1.5CT	300mA	600	0.8	4,000	22V- $\mu\text{s}$	-40 to +85°C
TGRDC-F60V5LF	1CT:2CT	300mA	600	0.8	4,000	22V- $\mu\text{s}$	-40 to +85°C
TGRDC-F70V5LF	1CT:1.6CT	300mA	600	0.8	4,000	22V- $\mu\text{s}$	-40 to +85°C
TGRDC-F75V5LF	1CT:1.75CT	300mA	384	0.7	4,000	18V- $\mu\text{s}$	-40 to +85°C
TGRDC-F80V5LF	1CT:2.66CT	300mA	600	0.8	4,000	22V- $\mu\text{s}$	-40 to +85°C

### Notes:

- Please contact the factory or representative for individual datasheets or additional information
- For medical applications please contact factory at [info@haloelectronics.com](mailto:info@haloelectronics.com) or (650) 903-3800



## Circuit Diagram



Dimensions: inch [mm]  
Co-planarity: 0.004" [0.1]  
Tolerances:  $\pm 0.005$ " [0.13mm] if not specified



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 2019 HALO Electronics, Inc. All rights reserved.

Download the latest version at <https://www.haloelectronics.com/pdf/discrete-dc2dc-tgrdcf.pdf>