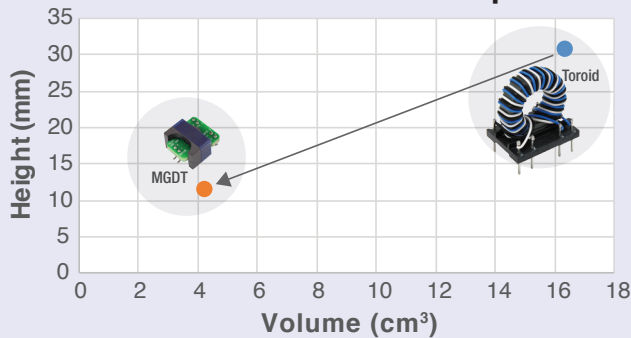




MINI PLANAR GATE DRIVE TRANSFORMER MGDT

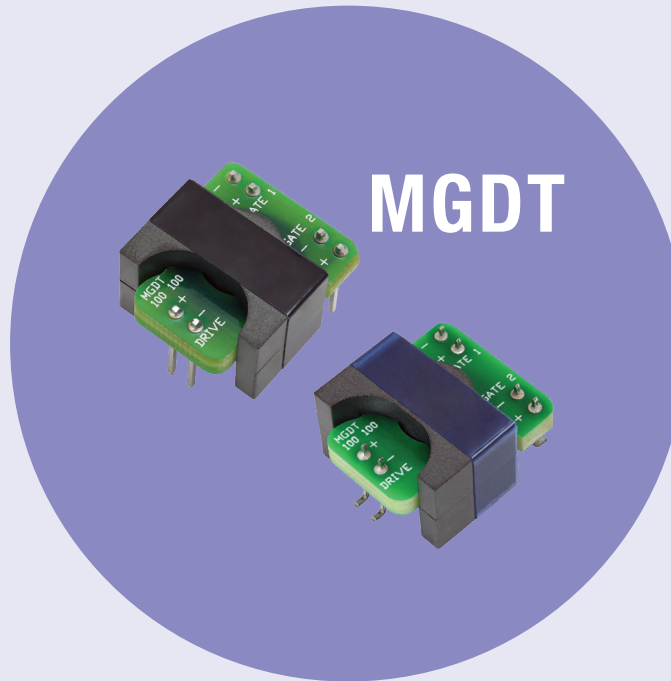
IN A NUTSHELL

MGDT vs Toroid Size Comparison



MGDT 100125

Product Family Turns Ratio
Example 1.00 : 1.25 : 1.25



FEATURES

Provides a **high isolation** of **3750 V_{AC}** from drive to gate

3750 V_{AC}

< 12 mm Offers **low profile** gate drive transformer package **< 12 mm**

Excellent **rise time** and **minimal overshoot** capabilities



Very **small package**, meeting **8 mm** creepage and clearance distance



Almost **4 times smaller** than equivalent toroidal wound design

4x

SPECIFICATIONS

PARAMETER	CONDITIONS	LIMITS	UNITS
Dielectric withstand voltage	Drive to gate, 1 min	3750 minimum	V _{AC}
	Gate to gate, 1 min	2500 minimum	V _{AC}
Frequency		100 to 500	kHz
Size (L x W x H)		20.57 x 18.42 x 11.43	mm
Terminals	Through-hole and surface-mount		

APPLICATIONS

- Directly drives high side MOSFETs / IGBTs on busses up to 1200 V
- Isolated power switch in motor drives
- Industrial, military, and aerospace applications

