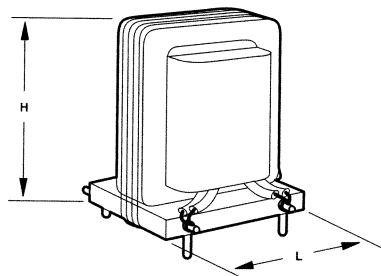


# Switchmode/High Frequency

## Gate Drive Transformers



### :: Description

Triad gate drive transformers are used universally in all high frequency switching topologies to isolate the control circuitry from the line-connected switches. The windings are interleaved for the lowest possible practical leakage inductance. Turn ratios of 1:1 and 1:1.5 optimize coupling and enhance performance. Available with single or dual secondaries, these transformers constructed of UL rated 130°C materials are easily standardized at operating frequencies 200 kHz and beyond.

### :: Gate Drive Transformers

Section	Type No.	Max. DCR 1-2	Max. DCR Gate	Min. ET Product	Max. Leakage	Min. Inductance	Turns Ratio	Dimensions							Wt. Oz.	
								H	W	L	A	B	C	D		E
A	GDE25-1	.350 Ohms	.350 Ohms	540 VpSec	2.5 µH	.680 mH	1:1	1.20	1.04	1.10	.150	.700	.600	.450	.850	.045
	GDE25-2	.350 Ohms	.650 Ohms	540 VpSec	2.5 µH	.680 mH	1:1:1									
	GDE25-3	.875 Ohms	.350 Ohms	840 VpSec	3.5 µH	1.50 mH	1:5:1									
	GDE25-4	.875 Ohms	.650 Ohms	840 VpSec	3.5 µH	1.50 mH	1.5:1:1									
	GDE25-5	.350 Ohms	.875 Ohms	540 VpSec	3.5 µH	.680 mH	1:1.5									
	GDE25-6	.350 Ohms	1.75 Ohms	540 VpSec	3.5 µH	.680 mH	1:1.5:1.5									

A GDE25 KIT is available which includes one of each of the above listed components.

### :: Outline Dimensions

#### Technical Notes

1. Drive to gate winding hi-pot tested at 3,750 VRMS.
2. Derate ET product by 32% for 50 kHz, 50% for 100 kHz and 50% for unidirectional operation.
3. Operation at rated current per winding renders approximately 40°C temperature rise.

