



SWITCHMODE/HIGH FREQUENCY GATE DRIVE TRANSFORMERS

80048 Rev. D

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 winding are interleaved for the lowest possible practical leakage inductance. Turn ratios of 1:1 & 1:1.5 optimize coupling & enhance performance. Available with single or dual secondaries, these transformers constructed of UL rated 130 degrees C materials are easily standardized at operating frequencies up to 200 kHz.

Gate Drive Transformers

TYPE NO.	MAX. DCR 1-2	MAX. DCR GATE	MAX. ET PRODUCT	MAX. LEAKAGE	MIN. INDUCTANCE	TURNS RATIO	DIMENSIONS							WT Lbs.	
							H	W	D	A	B	C	D		E
GDE25-1	.350 Ohms	.350 Ohms	540 VuSec	2.5 uH	.680 mH	1:1									
GDE25-2	.350 Ohms	.650 Ohms	540 VuSec	2.5 uH	.680 mH	1:1:1									
GDE25-3	.875 Ohms	.350 Ohms	840 VuSec	3.5 uH	1.5 mH	1.5:1	1.2	1.04	1.1	0.15	0.7	0.6	0.45	0.85	0.045
GDE25-4	.875 Ohms	.650 Ohms	840 VuSec	3.5 uH	1.5 mH	1.5:1:1									
GDE25-5	.350 Ohms	.875 Ohms	540 VuSec	3.5 uH	.680 mH	1:1.5									
GDE25-6	.350 Ohms	1.75 Ohms	540 VuSec	3.5 uH	.680 mH	1:1.5:1.5									

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

TECHNICAL NOTES:

1. Drive to gate winding hi-pot tested @ 3,750 VRMS
2. Derate ET product by 32% for 50 kHz, 50% for 100 kHz & 50% for unidirectional operation.
3. Operation at rated current per winding renders approximately 40 degrees celsius temperature rise.
4. "." Refers to polarity

