

MOSFET GATE DRIVE TRANSFORMERS



-  International safety construction, VDE approved
-  3750V_{RMS} gate to drive winding test
-  Useful operating frequency from 20kHz to 100kHz

Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C

Part Number	Turns Ratio (±5%)	Inductance 1V _{RMS} 1 kHz Term 1-2 (μH MIN)	Leakage ¹ Inductance Term 1-2 (μH MAX)	DCR Drive Winding (Ω MAX)	DCR Gate Winding (Ω MAX)	C _{ww} Drive To Gate (pf MAX)	C _{ww} Gate To Gate (pf MAX)	Typical Operating Frequency (kHz)
PE-63385NL	1:1	1500	4.0	0.40	0.75	50	NA	20-100
PE-63387NL*	1:1:1	1500	4.0	0.40	0.75	50	130	20-100
PE-63386NL	1:1.5	1500	4.0	0.40	2.50	50	NA	20-100
PE-63388NL	1:1.5:1.5	1500	4.0	0.40	2.50	50	130	20-100

*NOTE: Also Available with a U-L B1 Insulation (1446C) system, tested to 4400Vrms for 1 minute as PE-68448NL.

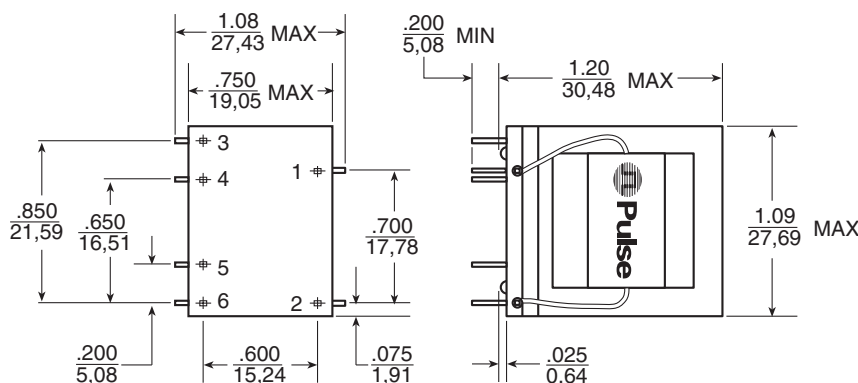
Maximum Ratings

Rating	Sym	PE-63385 PE-63386	PE-63387 PE-63388	Unit
Drive Excitation, Unipolar	ET _U ⁶	200	320	V-μs
Drive Excitation, Bipolar	ET _B ⁶	400	640	V-μs
Secondary RMS Current	I _{SR} ⁷	640	500	ma
Operating & Storage Temp.	T _{OP} , T _{STG}	105	105	°C

Dielectric Strength

Test Between	RMS Test Volts 60Hz, 1 Minute Hold
Gate-Drive	3750
Gate-Gate	1500
Gate-Core	2000
Drive-Core	1750

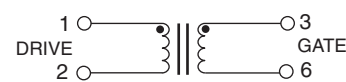
Mechanical



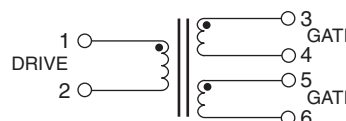
NOTES: 1. Measured with secondaries shorted
2. Pins .025/.064 square solderable
3. Unused pins not provided
4. Pin numbers not marked on part

5. Mounting header flammability rating: UL-94V0
6. At 2480 Gauss
7. At 200 CM/Amp

Schematics



PE-63385NL/PE-63386NL



PE-63387NL/PE-63388NL/PE-68448NL

Dimensions: $\frac{\text{Inches}}{\text{mm}}$
Unless otherwise specified,
all tolerances are $\pm \frac{.010}{0.25}$

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