

Base/Gate Driver Transformers

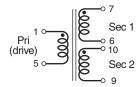


- · Lower cost than toroidal equivalents
- Frequency range of 10 250 kHz and up
- Industry standard pin centers
- 3750 Vrms, one minute isolation between windings
- UL1446 Class B (130°C) Insulation System (UL File E83628)

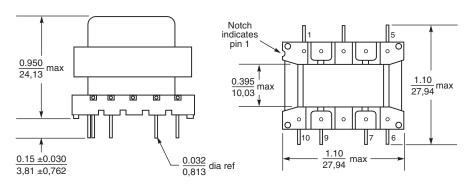
Coilcraft **Designer's Kit No. P404** contains samples of four standard driver transformers. To order, contact Coilcraft or visit **http://order.coilcraft.com** to purchase on-line.

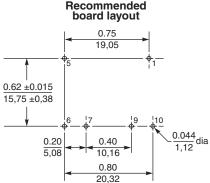
	SD250-1L	SD250-2L	SD250-3L	SD250-4L
Turns ratio ±3% (pri:sec)	1:1	1 : 1.5	1:1:1	1:1.5:1.5
Primary winding				
Inductance (min) ¹	1.5 mH	1.5 mH	1.5 mH	1.5 mH
Leakage inductance (max)1	4.0 µH	4.0 µH	4.0 µH	4.0 µH
DCR	0.4Ω	0.4Ω	0.4Ω	0.4Ω
Volt-time product	375 V-µsec	375 V-µsec	375 V-µsec	375 V-µsec
Secondary winding(s)				
Capacitance, pri to sec (max)	50 pF	50 pF	50 pF	50 pF
DCR, each section (max)	0.75Ω	2.5Ω	0.75Ω	2.5Ω

- - SD250-3 and 250-4



- 1. Measured at 1 Vrms, 15.75 kHz.
- 2. Operating temperature range -40° C to $+85^{\circ}$ C.
- 3. Electrical specifications at 25°C.





Pins 7 and 9 are not present on SD250-1 and SD250-2

Weight: 15.6 – 16.8 g

Termination: Tin-silver over tin over copper

Packaging: 49 per tray



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This product may not be used in medical of high risk applications without prior Coilcraft approval Specification subject to change without notice Please check out web site for latest information

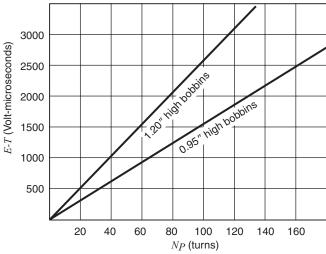


Custom Version Specifications

In addition to the standard base/gate driver transformers shown here, Coilcraft can provide custom versions to meet your specifications.

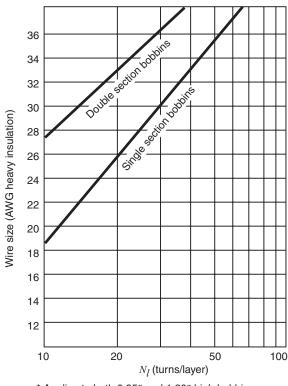
Our two basic structures are the 0.95" high part shown and a 1.20" high version. Both are available with either single or double sections.

Volt-Time vs Primary Turns*



^{*} Applies to both double and single section bobbins.

Turns Per Layer vs Wire Size*



^{*} Applies to both 0.95" and 1.20" high bobbins.

Please use the information below to determine the performance characteristics available.

Core

Initial permeability $A_{_{\mathcal{C}}}$ (core cross-sectional area) $I_{_{\mathcal{C}}}$ (mean magnetic path length)

Bobbin

Material Number of terminals available Number of wiring sections available
 0.95" high bobbins
 1.20" high bobbins

 2000μ
 2000μ

2000µ 2000µ 0.40 cm² 0.80 cm² 4.90 cm 4.80 cm

UL94V-0, 130°C

10 10 1 or 2 1 or 2

