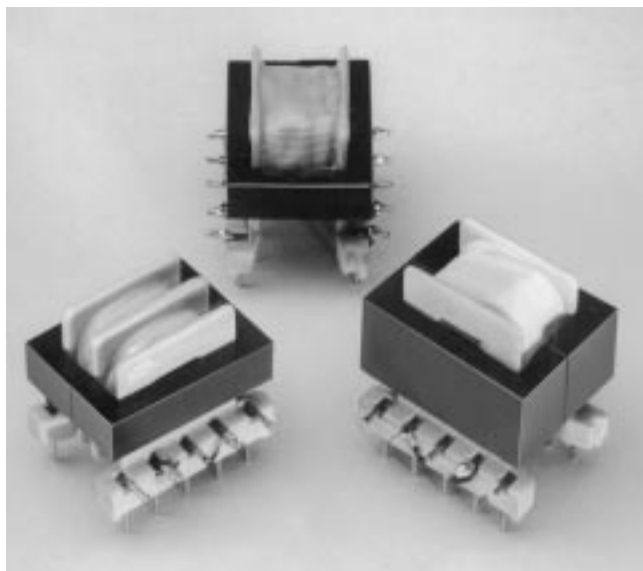


Base/Gate Driver Transformers



- Lower cost than toroidal equivalents
- Frequency range of 10 - 250 kHz and up
- Industry standard pin centers
- VDE, IEC, UL, CSA compatible
- 3750 VRMS isolation between windings
- UL approved Class 130°C insulation system available (UL File E83628)

Coilcraft **Designer's Kit No. P204** contains samples of 4 standard driver transformers. To order, please contact Coilcraft or visit <http://order.coilcraft.com> to order on-line.

STANDARD VERSION SPECIFICATIONS

DRIVE WINDING

Inductance (Min) ¹	1.5 mH
Leakage inductance (Max) ¹	4.0 μ H
DCR	0.4 Ω
Volt-time product	375 V- μ sec

SECONDARY WINDING(S)

N_p/N_s ($\pm 3\%$)	1 : 1
Cap., drive to sec. (Max)	50 pF
DCR each section (Max)	.75 Ω

SD250-1

Inductance (Min) ¹	1.5 mH
Leakage inductance (Max) ¹	4.0 μ H
DCR	0.4 Ω
Volt-time product	375 V- μ sec

SD250-2

Inductance (Min) ¹	1.5 mH
Leakage inductance (Max) ¹	4.0 μ H
DCR	0.4 Ω
Volt-time product	375 V- μ sec

SD250-3

Inductance (Min) ¹	1.5 mH
Leakage inductance (Max) ¹	4.0 μ H
DCR	0.4 Ω
Volt-time product	375 V- μ sec

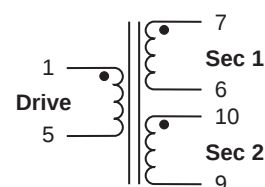
SD250-4

Inductance (Min) ¹	1.5 mH
Leakage inductance (Max) ¹	4.0 μ H
DCR	0.4 Ω
Volt-time product	375 V- μ sec

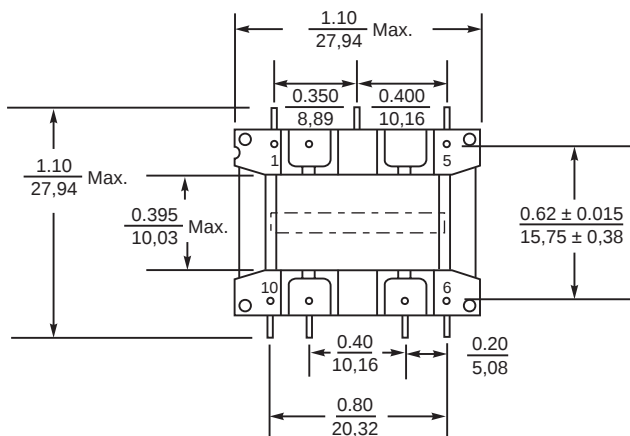
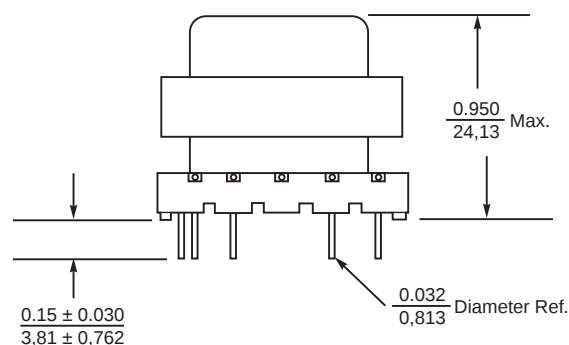
SD250-1 and 250-2



SD250-3 and 250-4



1. Measured at 1 Vrms, 15.75 kHz
2. Operating temperature range -40° C to +85° C.
3. Electrical specifications at 25° C.



(Pins 7 and 9 omitted on SD250-1 and 250-2)

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Specifications subject to change without notice. Document 130-1 Revised 9/14/00

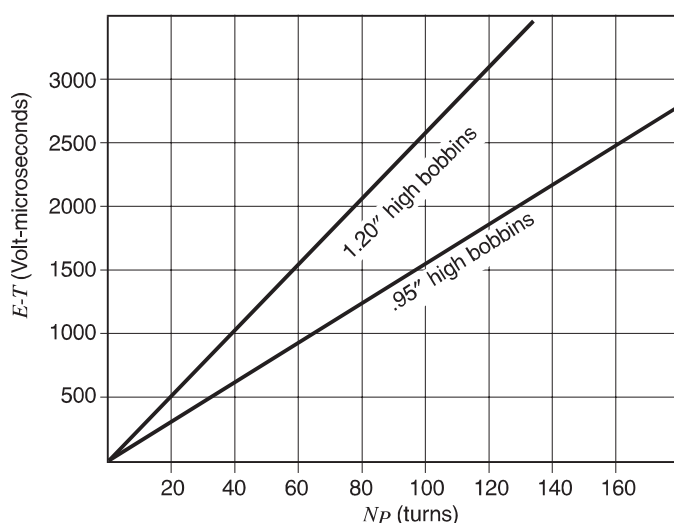
1102 Silver Lake Road Cary, Illinois 60013 Phone 847/639-6400 Fax 847/639-1469
E-mail info@coilcraft.com Web <http://www.coilcraft.com>

CUSTOM VERSION SPECIFICATIONS

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

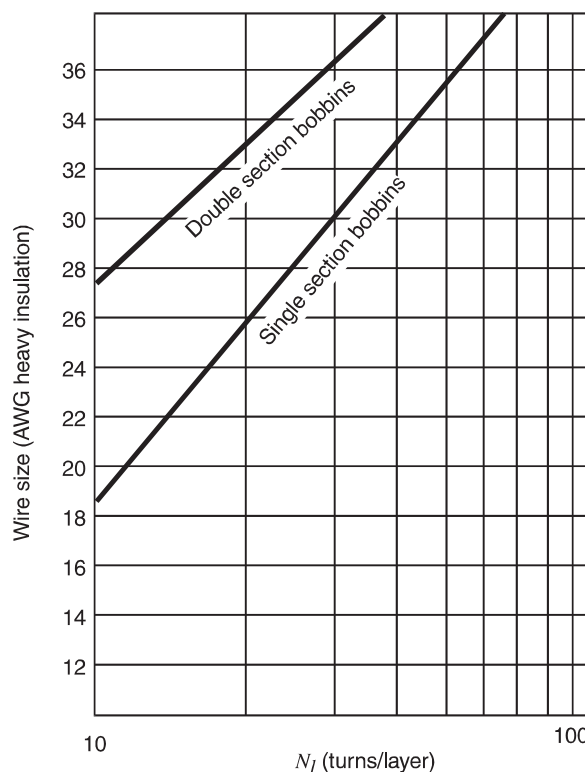
Our two basic structures are the .95" high part shown and a 1.20" high version. Both are available with either single or double sections.

Volt-Time vs Primary Turns*



* Applies to both double and single section bobbins.

Turns Per Layer vs Wire Size*



* Applies to both .95" and 1.20" high bobbins.

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

CORE

Initial permeability
 A_e (core cross-sectional area)
 l_e (mean magnetic path length)

	.95" high bobbins	1.20" high bobbins
Initial permeability	2000μ	2000μ
A_e (core cross-sectional area)	0.40 cm ²	0.80 cm ²
l_e (mean magnetic path length)	4.90 cm	4.80 cm

BOBBIN

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Specifications subject to change without notice. Document 130-2 Revised 11/12/97

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