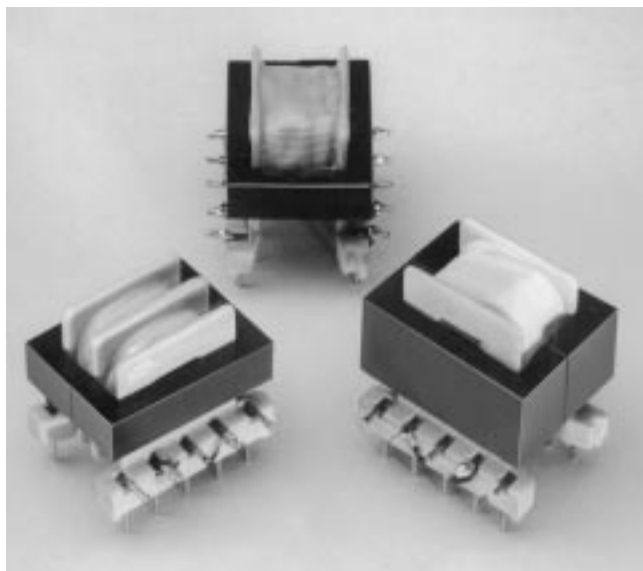


Base/Gate Driver Transformers



- 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)*
Leakage inductance (Max)*
DCR
Volt-time product

SD250-1	SD250-2	SD250-3	SD250-4
1.5 mH	1.5 mH	1.5 mH	1.5 mH
4.0 μ H	4.0 μ H	4.0 μ H	4.0 μ H
0.4 Ω	0.4 Ω	0.4 Ω	0.4 Ω
375 V- μ sec	375 V- μ sec	375 V- μ sec	375 V- μ sec

SECONDARY WINDING(S)

N_p/N_s ($\pm 3\%$)
Cap., drive to sec. (Max)
DCR each section (Max)

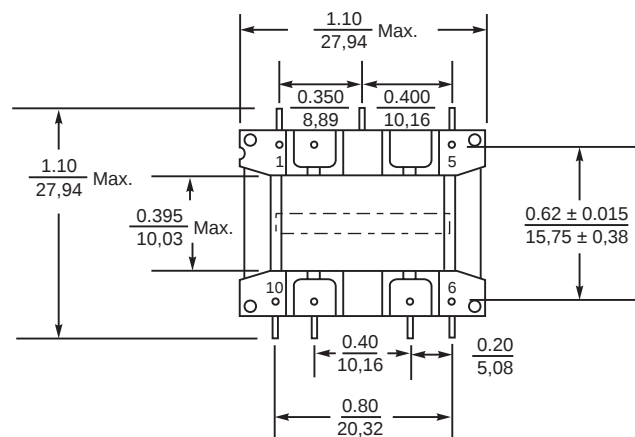
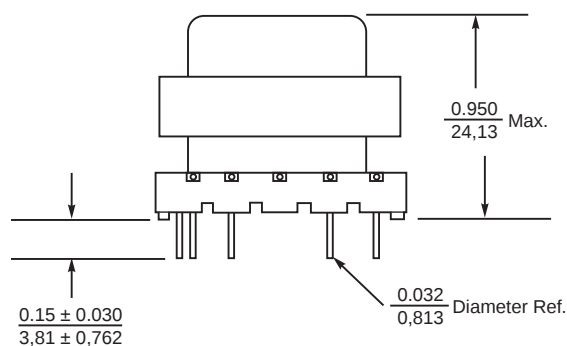
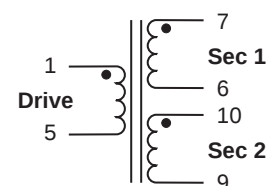
SD250-1	SD250-2	SD250-3	SD250-4
1 : 1	1 : 1.5	1 : 1 : 1	1 : 1.5 : 1.5
50 pF	50 pF	50 pF	50 pF
.75 Ω	2.5 Ω	.75 Ω	2.5 Ω

* Measured at 1 Vrms, 15.75 kHz

SD250-1 and 250-2



SD250-3 and 250-4



(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 4/5/99

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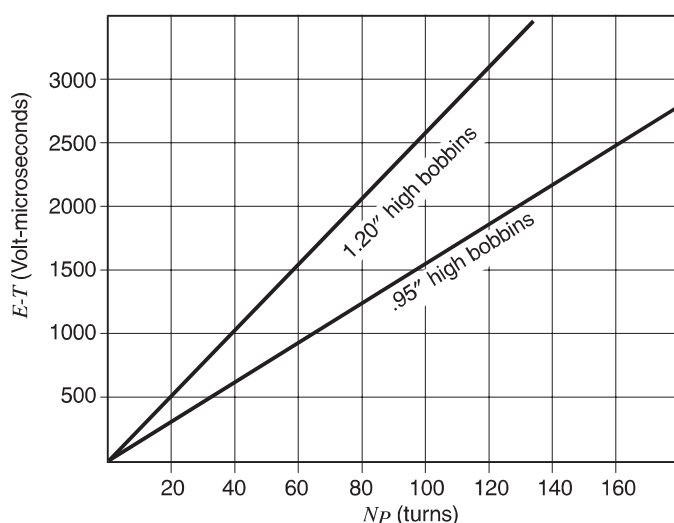
CUSTOM VERSION SPECIFICATIONS

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.

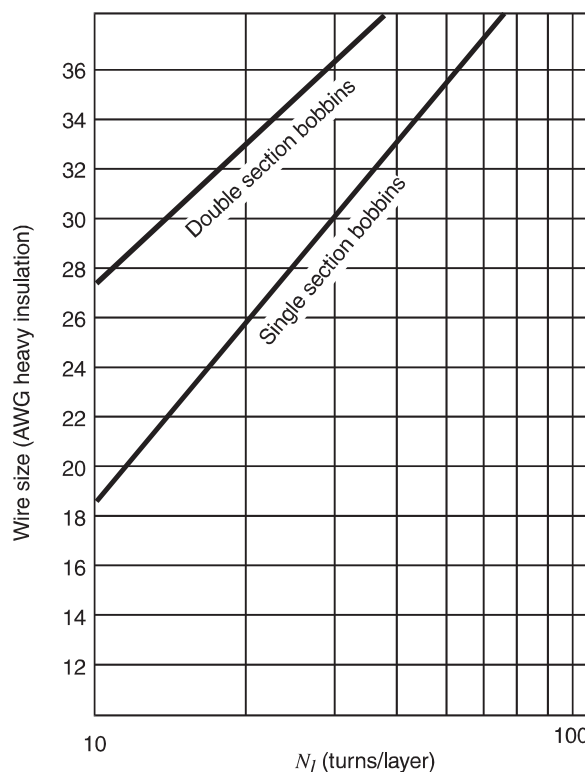
Please use the information below to determine the performance characteristics available.

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.

CORE

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

.95" high bobbins 1.20" high bobbins

2000 μ	2000 μ
0.40 cm ²	0.80 cm ²
4.90 cm	4.80 cm

BOBBIN

Material
 Number of terminals available
 Number of winding sections available

UL94V-0, 130°C

10	10
1 or 2	1 or 2

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