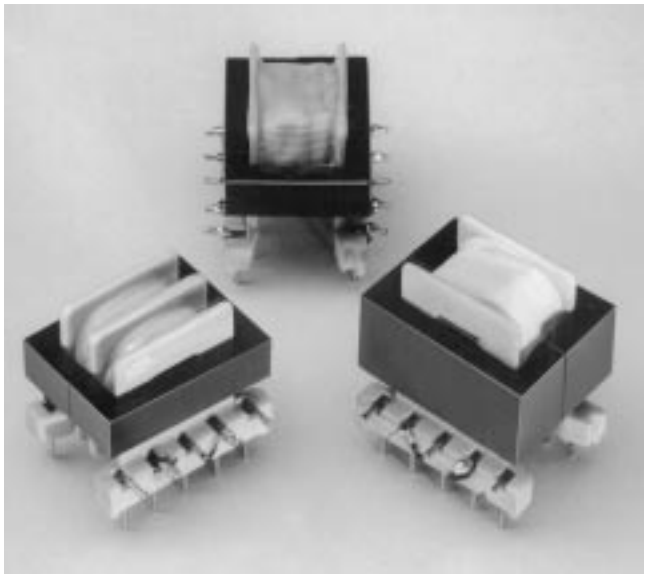
Base/Gate Driver Transformers



- 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)

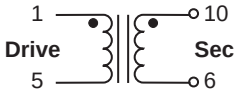
Coilcraft **Designer's Kit No. P204** contains samples of 4 standard driver transformers. To order, please contact Coilcraft or visit http://order.coilcraft.com to order on-line.

STANDARD VERSION SPECIFICATIONS

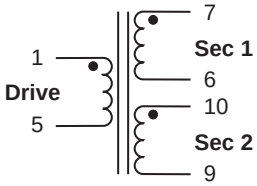
	SD250-1	SD250-2	SD250-3	SD250-4
DRIVE WINDING				
Inductance (Min)[1]	1.5 mH	1.5 mH	1.5 mH	1.5 mH
Leakage inductance (Max)[1]	4.0 µH	4.0 µH	4.0 µH	4.0 µH
DCR	0.4Ω	0.4Ω	0.4Ω	0.4Ω
Volt-time product	375 V-µsec	375 V-µsec	375 V-µsec	375 V-µsec
SECONDARY WINDING(S)				
N_p/N_s (± 3%)	1 : 1	1 : 1.5	1 : 1 : 1	1 : 1.5 : 1.5
Cap., drive to sec. (Max)	50 pF	50 pF	50 pF	50 pF
DCR each section (Max)	.75Ω	2.5Ω	.75Ω	2.5Ω

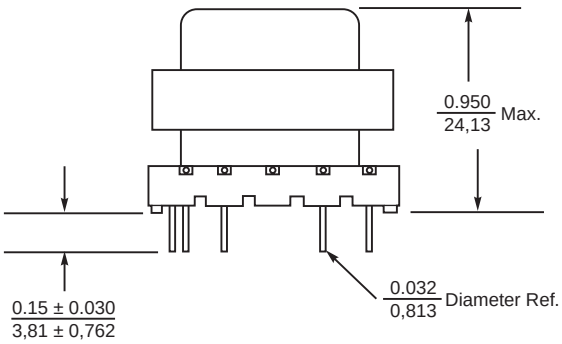
1. Measured at 1 Vrms, 15.75 kHz
2. Operating temperature range –40° C to +85° C.
3. Electrical specifications at 25° C.

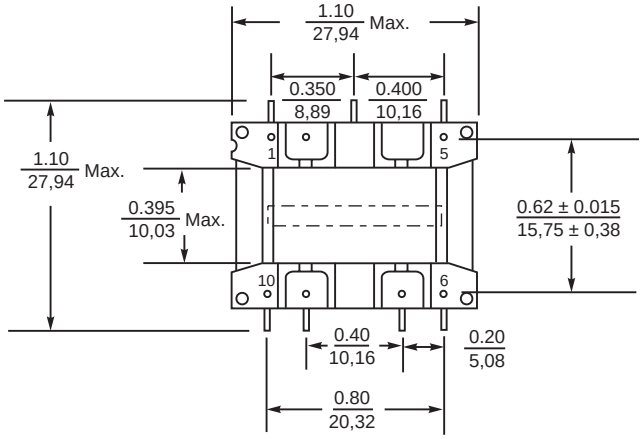
SD250-1 and 250-2



SD250-3 and 250-4







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

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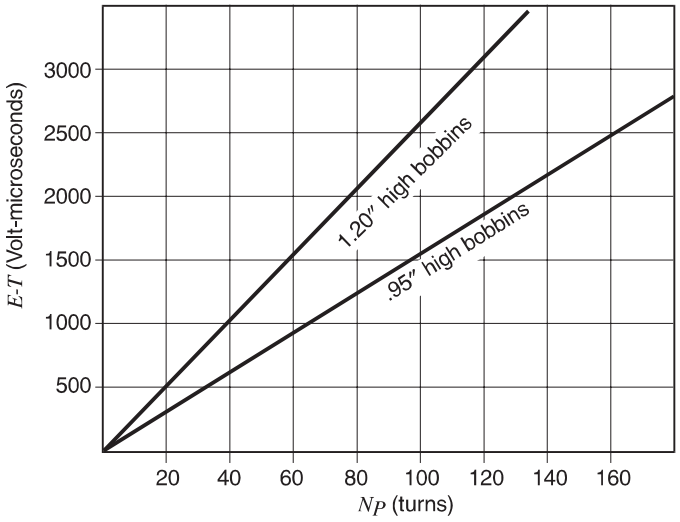
E-mail info@coilcraft.com **Web** http://www.coilcraft.com

CUSTOM VERSION SPECIFICATIONS

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

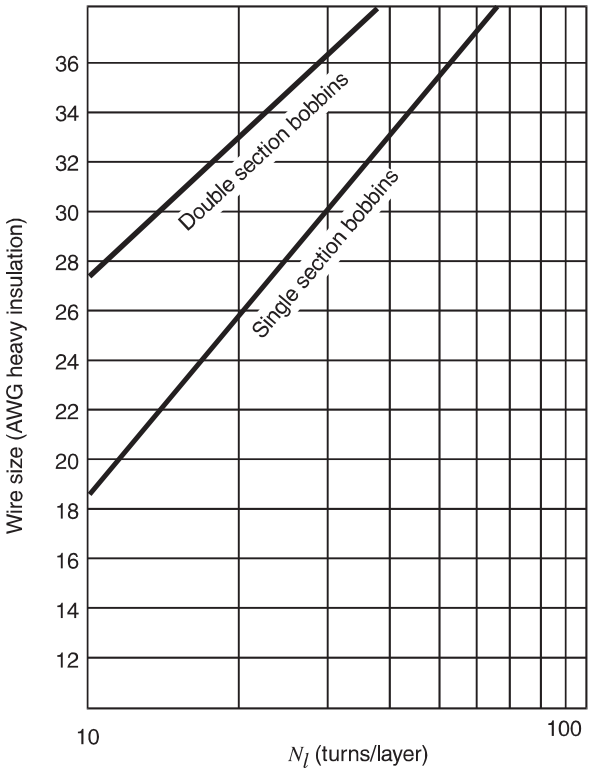
Our two basic structures are the .95″ high part shown and a 1.20″ high version. Both are available with either single or double sections.

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

	.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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