WEBENCH® Transformer Report

Design : 4878393/26 UCC28C44DR
UCC28C44DR 48.0V-56.0V to 12.00V @ 2.0A

#	Name	Value
1.	Core Part Number	B66417G0000X197
2.	Core Manufacturer	TDK
3.	Coil Former Part Number	B66418W1008D001
4.	Coil Former Manufacturer	TDK

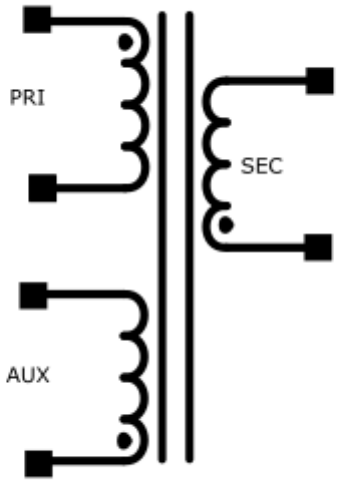
Transformer Electrical Diagram

Primary

Turns	29
AWG	27
Layers	2
Strands	2
Insulation Type	Heavy Insulated Magnet Wire

Auxiliary

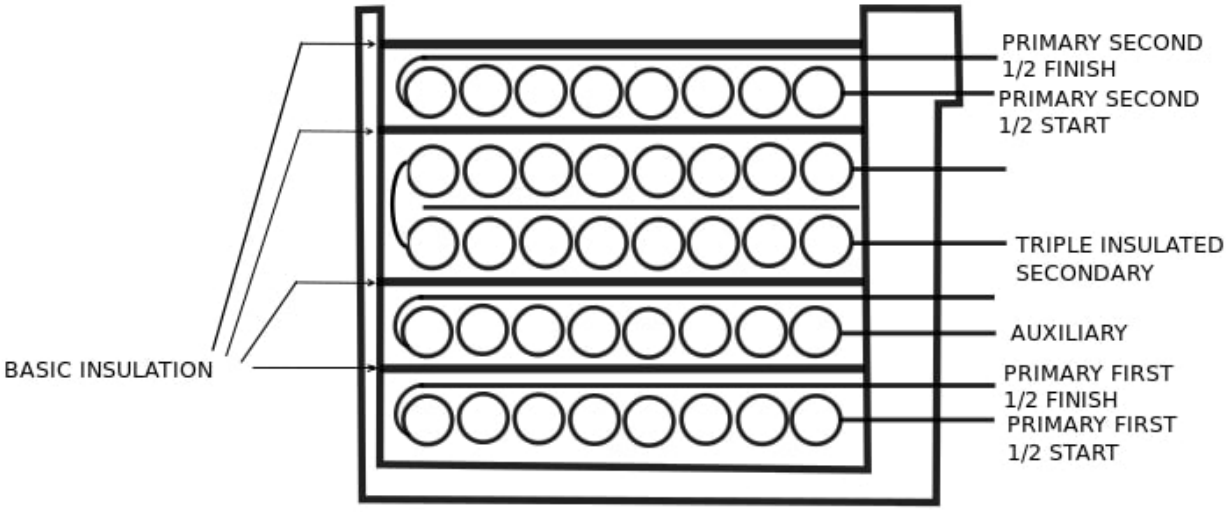
Turns	15
AWG	28
Layers	1
Strands	2
Insulation Type	Heavy Insulated Magnet Wire



Secondary

Turns	13
AWG	28
Layers	2
Strands	3
Insulation Type	Triple Insulated

Transformer Construction Diagram



Winding Instruction

Winding	AWG	Turns	Winding Orientation
Primary First 1/2	27	15	Clockwise
Auxiliary	28	15	Counter Clockwise
Triple Insulated Secondary	28	13	Counter Clockwise
Primary Second 1/2	27	14	Clockwise

Transformer Parameters

#	Name	Value
1.	Lpri	8.5E-5H
2.	Inductance Factor(Al)	102nH
3.	Npri	29
4.	Nsec	13
5.	Naux	15
6.	Core Type	EFD20/10/7
7.	Core Material	N97
8.	Bmax	0.25T
9.	Switching Frequency	99.31kHz
10.	DMax	0.4
11.	Ipk(Primary)	2.62A
12.	Irms(Primary)	1.04A
13.	Ipk(Secondary)	5.84A
14.	Irms(Secondary)	2.83A

Design Assistance

1. **UCC28C44** Product Folder : http://www.ti.com/product/UCC28C44 : contains the data sheet and other resources.