407 series

switch mode transformers

PRODUCT DESCRIPTION

West Coast Magnetics' 407 series transformers have been designed for power use including linear and switch mode applications. The power handling capability is as high as 1500 Watts in bipolar topologies. This type of transformer is often used in forward converter topologies. Recommended frequency of operation is as low as 10 kHz and as high as 500 kHz. This E-core series is based on popular lamination sizes. As a result, 60 Hz transformers and inductors can be constructed from this geometry by replacing the ferrite cores with silicon steel laminations.

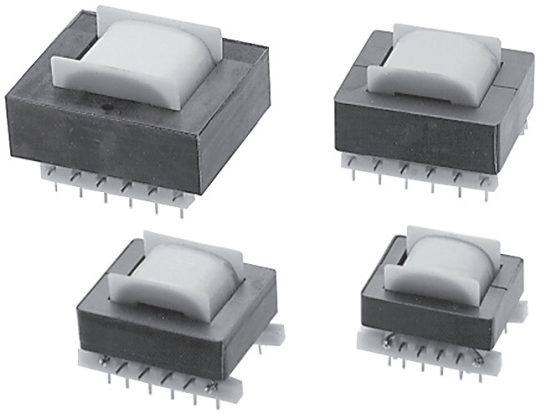
FEATURES & BENEFITS

Power to 1.5 kW – Fast prototype turnarounds – Complete designs from West Coast Magnetics

OUTPUT POWER (WATTS) vs FREQUENCY OF OPERATION

RoHS compliant

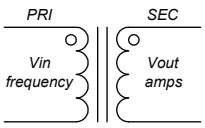
Product Code	60 Hz	25 kHz	50 kHz	100 kHz	250 kHz	500 kHz
E 34	3.5	82	109	145	205	246
E 41	7.0	166	221	293	415	498
E 47	12.0	265	352	469	663	795
E 56	22.0	553	735	978	1382	1659



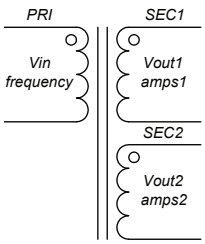
Note: Output power versus frequency data was generated assuming a typical push/pull topology and 40° C transformer temperature rise. This data is typical for most SMPS topologies but is a reference only. Check with West Coast Magnetics for final verification of transformer size.

This custom power transformer will be designed precisely to your requirements.
Choose a schematic below and click here to contact us with your specifications.

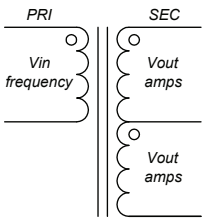
schematic A



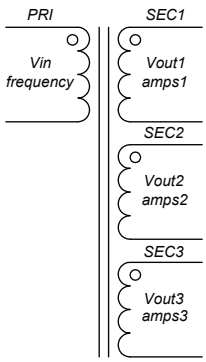
schematic B



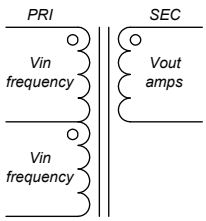
schematic C



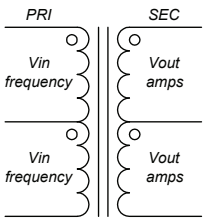
schematic D



schematic E



schematic F

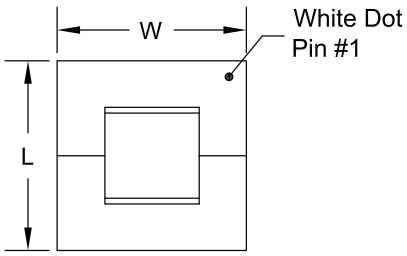


WEST COAST MAGNETICS

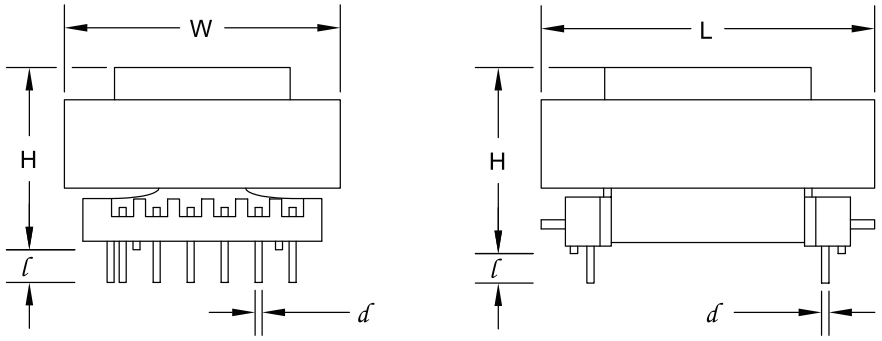
www.wcmagnetics.com **1.800.628.1123**

Dimensions: inches / mm

407
Top View

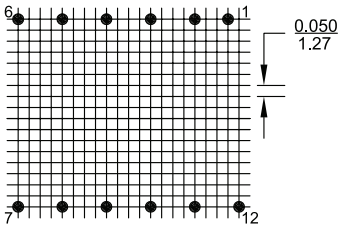


407
Side Views

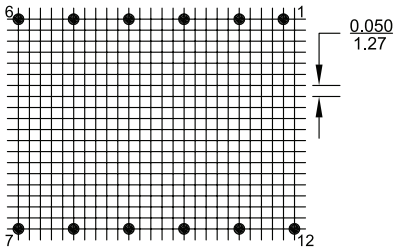


PCB Layouts
Holes for bobbin

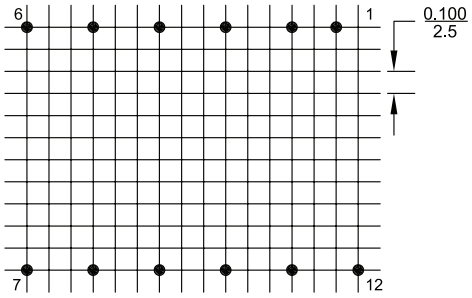
407
E34



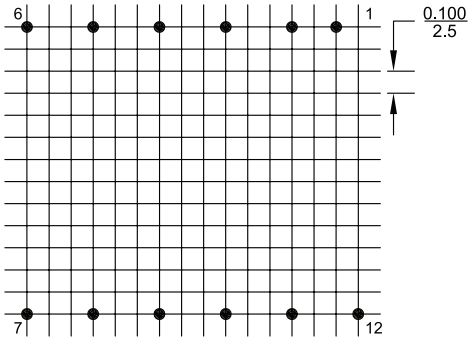
407
E41



407
E47



407
E56



Product Code	L	W	H	ℓ	d*
E34	1.25 31.8	1.49 37.8	1.05 26.7	0.125 3.2	0.025 0.64
E41	1.40 35.6	1.69 42.9	1.15 29.2	0.150 3.8	0.025 0.64
E47	1.60 40.6	1.90 48.3	1.32 33.5	0.135 3.4	0.025 0.64
E56	1.90 48.3	2.27 57.7	1.58 40.1	0.165 4.2	0.025 0.64

* square

Note: All materials of construction minimum Class B 130° C rated.