406 series

switch mode transformers

PRODUCT DESCRIPTION

West Coast Magnetics' 406 series transformers have been designed for power use including linear and switch mode applications. Gapped cores will support significant amount of DC so this series is ideal for flyback applications. Recommended frequency of operation is as low as 10 kHz and as high as 500 kHz. The 406 series geometry will also support a high level of creepage and clearance and is suited for designs requiring high levels of safety isolation.

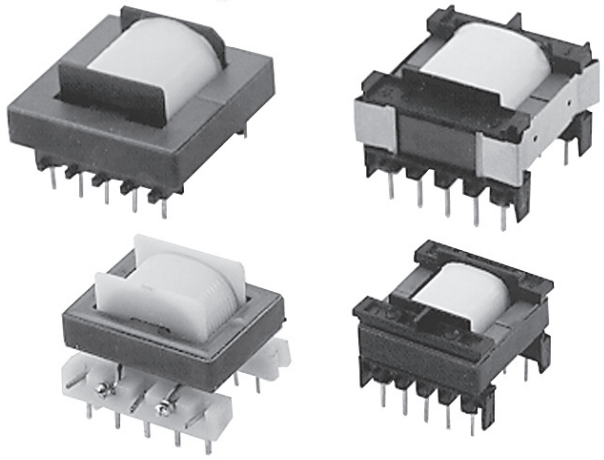
FEATURES & BENEFITS

Fast prototype turnarounds – Complete designs from West Coast Magnetics – Adaptable to UL,CSA,VDE safety agency requirements

OUTPUT POWER (WATTS) vs FREQUENCY OF OPERATION

Product Code	*25 kHz*	*50 kHz*	*100 kHz*	*250 kHz*	*500 kHz*
E 20	21	25	33	51	57
E 25	28	34	45	71	79
E 28	52	62	85	129	144
E 30	78	93	124	194	217

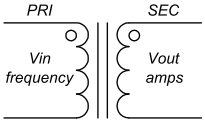
RoHS compliant



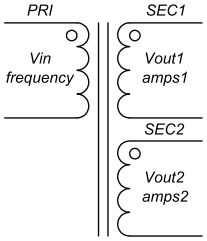
Note: Output power versus frequency data was generated assuming a typical push/pull topology and 40° C transformer temperature rise. This data is typical for most SMPS topologies but is a reference only. Check with West Coast Magnetics for final verification of transformer size.

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

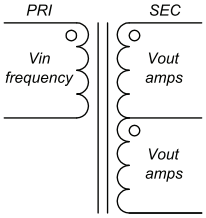
schematic A



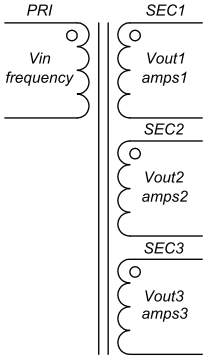
schematic B



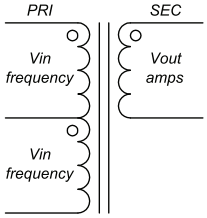
schematic C



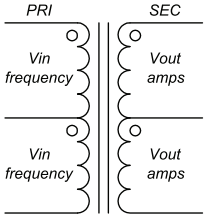
schematic D



schematic E



schematic F

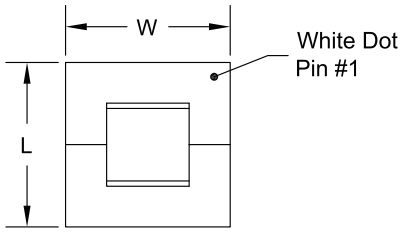


WEST COAST MAGNETICS

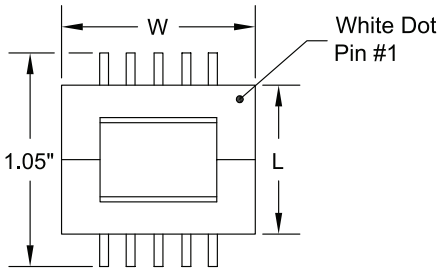
www.wcmagnetics.com **1.800.628.1123**

Dimensions: inches
mm

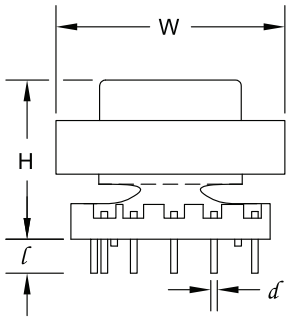
406
E20, E28 & E30
Top View



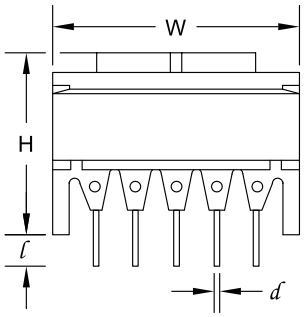
406
E25
Top View



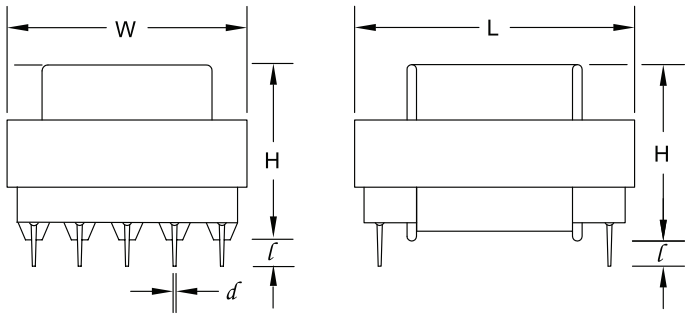
406
E25
Side View



406
E20 & E28
Side View

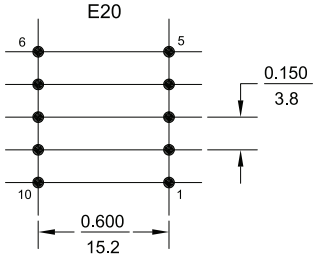


406
E30
Side Views

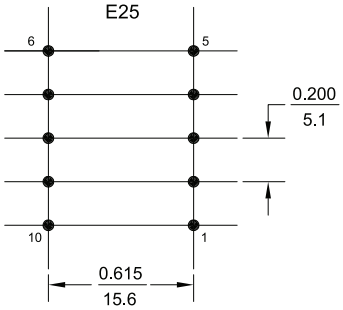


PCB Layouts
Holes for bobbin

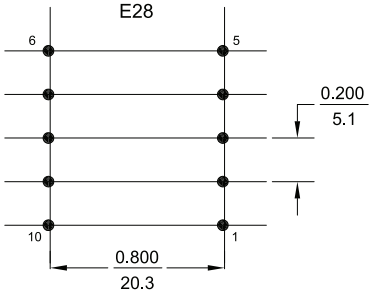
406
E20



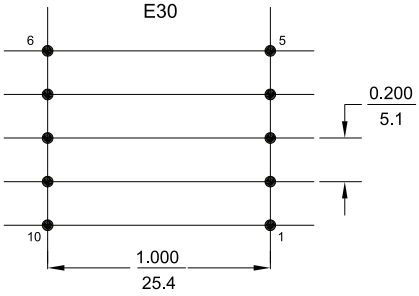
406
E25



406
E28



406
E30



Note: L,W, H are maximum dimensions with mounting hardware.

Note: *d* is maximum diameter. This dimension may vary by 15%.

Note: *ℓ* is nominal pin length. Allow for ± 10% variation in this dimension.

Product Code	*L*	*W*	*H*	*ℓ*	*d*
E 20	0.85 21.6	0.88 22.2	0.70 17.8	0.138 3.5	0.018* 0.45
E 25	0.82 20.8	1.05 26.7	0.83 21.1	0.135 3.4	0.025* 0.64
E 28	1.10 27.9	1.11 28.2	0.83 21.1	0.138 03.5	0.028* 0.71
E 30	1.23 31.2	1.23 31.2	0.79 20.1	0.120 3.0	0.030 0.76

* square

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