

# 404 series

## switch mode transformers

### PRODUCT DESCRIPTION

West Coast Magnetics' 404 series is ideal for use in switch mode power supply applications. These transformers extend the output power range available beyond the West Coast Magnetics' 401 and 402 series transformers up to 500 Watts. The geometry of the 404 series core and bobbin provides a uniform winding area around the magnetic circuit which provides greater efficiency than other E-core designs. The material has also been designed to maximize inter-winding isolation, making the 404 series a good choice when safety agency compliance is important.

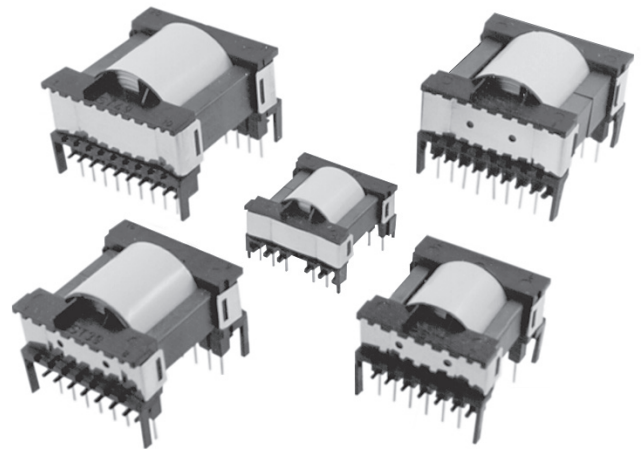
### FEATURES & BENEFITS

Output power to 500 Watts – More efficient than other E core designs – Adaptable to UL, CSA, VDE safety agency requirements – Standard gapped cores available from stock – Design assistance from West Coast Magnetics

### OUTPUT POWER (WATTS) vs FREQUENCY OF OPERATION

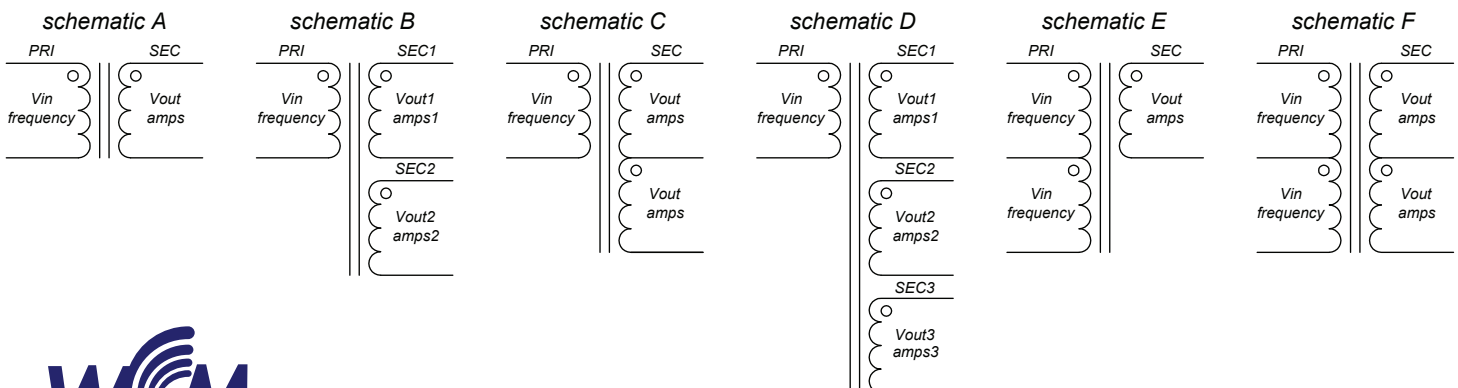


Product Code	25 kHz	50 kHz	100 kHz	250 kHz	500 kHz
ETD 29	73	98	131	185	221
ETD 34	115	153	204	287	344
ETD 39	198	264	352	495	593
ETD 44	311	415	554	778	932
ETD 49	460	612	817	1146	1374



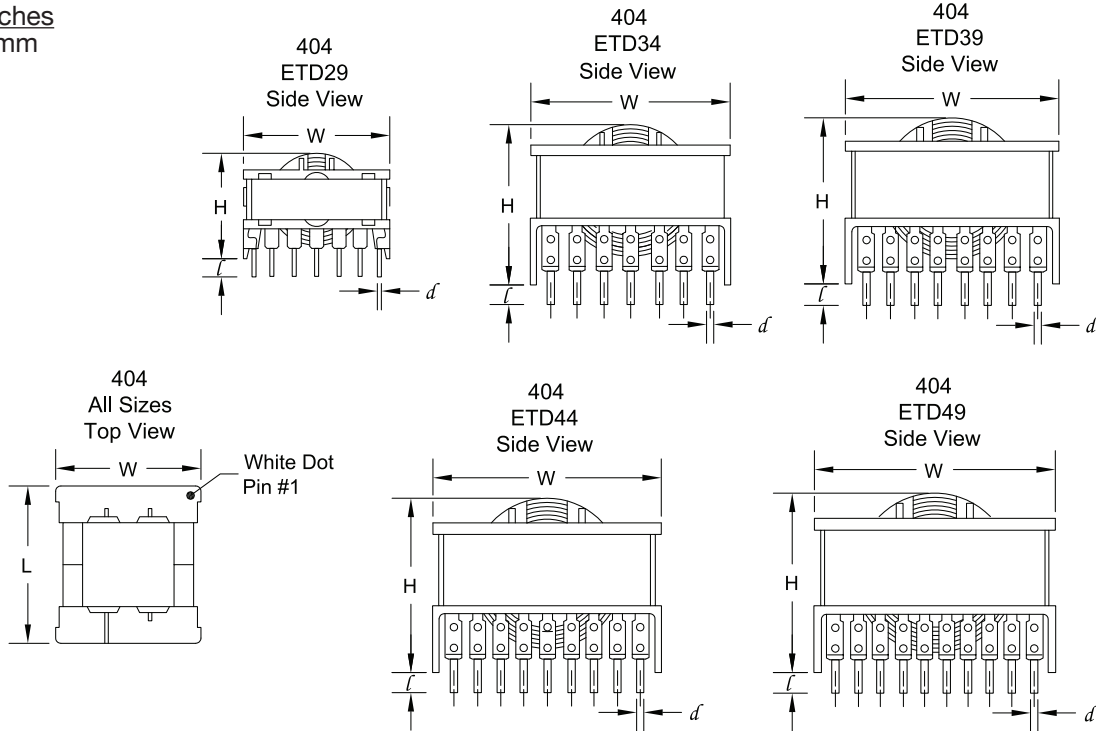
Note: Output power versus frequency data was generated assuming a typical push/pull topology and 40° C transformer temperature rise. This data is typical for most SMPS topologies but is a reference only. Check with West Coast Magnetics for final verification of transformer size.

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

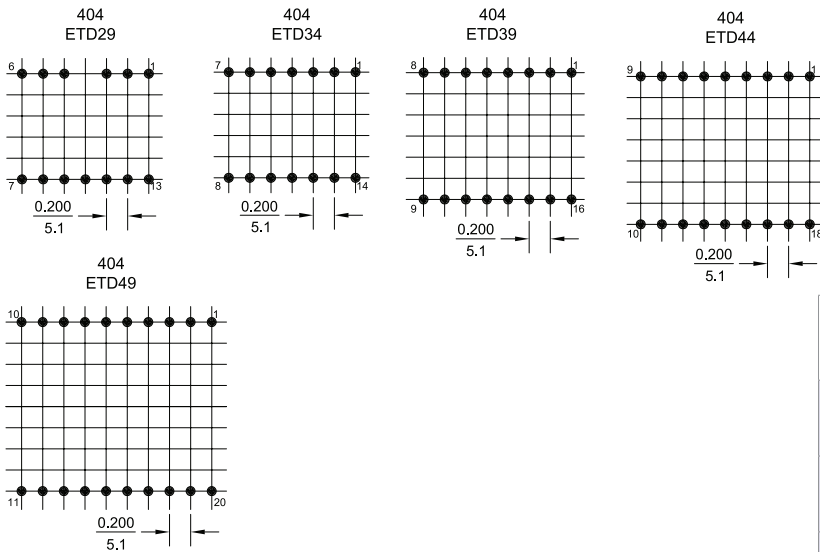


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Dimensions:  $\frac{\text{inches}}{\text{mm}}$



PCB Layouts  
Holes for bobbin



Product Code	L	W	H	l	d
ETD 29	$\frac{1.39}{35.3}$	$\frac{1.39}{35.3}$	$\frac{1.00}{25.4}$	$\frac{0.134}{0.34}$	$\frac{0.028^*}{0.71}$
ETD 34	$\frac{1.68}{42.7}$	$\frac{1.58}{40.1}$	$\frac{1.38}{35.1}$	$\frac{0.200}{5.1}$	$\frac{0.039}{1.0}$
ETD 39	$\frac{1.90}{48.3}$	$\frac{1.80}{45.7}$	$\frac{1.48}{37.6}$	$\frac{0.200}{5.1}$	$\frac{0.039}{1.0}$
ETD 44	$\frac{2.08}{52.8}$	$\frac{2.00}{50.8}$	$\frac{1.58}{40.1}$	$\frac{0.200}{5.1}$	$\frac{0.039}{1.0}$
ETD 49	$\frac{2.28}{57.9}$	$\frac{2.18}{55.4}$	$\frac{1.68}{42.7}$	$\frac{0.200}{5.1}$	$\frac{0.039}{1.0}$

\* square pin